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PATENT APPLICATION  
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(Only for new nonprovisional applications under 37 C.F.R. § 1.53 (b))

Attorney Docket No.

LEX-0051-USA

First Inventor or Application  
Identifier

Glenn Friedrich et al.

Title

Novel Mutated Mammalian Cells and Animals

Express Mail label No.

EL584856615US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:

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Washington, DC 202311 ☐ \*Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)5. ☐ Microfiche Computer Program (Appendix)2 ☒ Specification [Total 18]  
Pages  
(preferred arrangement set forth below)6 Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)

- Descriptive title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R & D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the disclosure

a ☐ Computer Readable Copyb. ☒ Paper Copy (identical to computer copy)c ☐ Statement verifying identity of above copies3 ☒ Drawing(s) (35 U.S.C. 113) [Total 15]  
Sheets

4. Oath or Declaration [Total 1]

a ☒ Newly unexecuted (original or copy)b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)i ☐ **DELETION OF INVENTOR(S)**  
Signed statement attached deleting  
inventor(s) named in the prior application,  
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).**NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES, A  
SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT IF  
ONE FILED IN A PRIOR APPLICATION IS RELED UPON (37 C.F.R. § 1.28).****ACCOMPANYING APPLICATION PARTS**7 ☐ Assignment Papers (cover sheet & document(s))8. ☐ 37 C.F.R. § 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney9. ☐ English Translation Document (if applicable)10. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations11. ☐ Preliminary Amendment12 ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)13. ☐ \*Small Entity Statement(s) ☐ Statement filed in prior application,  
Status still proper and desired  
(PTO/B/09-12)14. ☐ Certified Copy of Priority Document(s)  
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Prior application information: Examiner: .....

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## NOVEL MUTATED MAMMALIAN CELLS AND ANIMALS

The present application claims the benefit of U.S.  
5 Provisional Application Ser. No. 60/157,651, filed October 4,  
1999, which is herein incorporated by reference in its entirety.  
The present application also incorporates U.S. Patent No.  
6,080,576 and U.S. Applications Ser. Nos. 08/726,867, 08/728,963,  
08/907,598, 08/942,806, 60/109,302, and 09/276,533 and their  
10 respective disclosures herein by reference in their entirety.

### 1.0. FIELD OF THE INVENTION

The present invention is in the field of molecular genetics.  
The application discloses novel mutated cells that are generated  
15 by process involving the insertion of at least a portion of a  
genetically engineered viral vector into the chromosome. The  
specifically disclosed recombinant vector allows for the rapid  
identification of the gene that has been mutated by using  
nucleotide or amino acid sequence information to identify the  
20 gene that has been mutated by the vector. When mutated embryonic  
stem cell clones are produced, such cells can be used to produce  
mutant animals capable of germline transmission of the described  
mutated genes.

### 25 2.0. BACKGROUND OF THE INVENTION

Most mammalian genes are divided into exons and introns.  
Exons are the portions of the gene that are spliced into mRNA and  
encode the protein product of a gene. In genomic DNA, these  
coding exons are often divided by noncoding intron sequences.  
30 Although RNA polymerase transcribes both intron and exon  
sequences, the intron sequences must be removed from the  
transcript so that the resulting mRNA can be translated into  
protein. Accordingly, all mammalian, and most eukaryotic, cells  
have the machinery to splice exons to produce mRNA. Gene trap  
35 vectors have been designed to insert into the introns of genes in  
a manner that allows the cellular splicing machinery to splice

vector encoded exons to cellular mRNAs. Commonly, gene trap  
vectors contain selectable marker sequences that are preceded by  
strong splice acceptor sequences and are not preceded by a  
promoter. Thus, when such vectors integrate into a gene, the  
5 cellular splicing machinery splices exons from the trapped gene  
onto the 5' end of the selectable marker sequence. Typically,  
such selectable marker genes can only be expressed if the vector  
encoding the gene has integrated into an intron. The resulting  
gene trap events are subsequently identified by selecting for  
10 cells that can survive selective culture.

Gene trapping has generally proven to be an efficient method  
of mutating large numbers of genes. The insertion of the gene  
trap vector creates a mutation in the trapped gene, and also  
provides a molecular tag for ease of identifying the gene that  
15 has been trapped. When ROSA $\beta$ geo was used to trap genes it was  
demonstrated that at least 50% of the resulting mutations  
resulted in a phenotype when examined in mice. This indicates  
that the gene trap insertion vectors are useful mutagens.  
Although a powerful tool for mutating genes, the potential of the  
20 method has historically been limited by the difficulty in  
identifying the trapped genes. Methods that have been used to  
identify trap events rely on the fusion transcripts resulting  
from the splicing of exon sequences from the trapped gene to  
sequences encoded by the gene trap vector. Common gene  
25 identification protocols used to obtain sequences from these  
fusion transcripts include 5' RACE, cDNA cloning, and cloning of  
genomic DNA surrounding the site of vector integration. However,  
these methods have proven labor intensive, not readily amenable  
to automation, and generally impractical for high-throughput.

30 More recently, vectors have been developed that rely on a  
new strategy of gene trapping that uses a vector that contains a  
selectable marker gene preceded by a promoter and followed by a  
splice donor sequence instead of a polyadenylation sequence.  
These vectors do not provide selection unless they integrate into

a gene and subsequently trap downstream exons which provide a polyadenylation sequence. Integration of such vectors into the chromosome results in the splicing of the selectable marker gene to 3' exons of the trapped gene. These vectors provide a number of advantages. They can be used to trap genes regardless of whether the genes are normally expressed in the cell type in which the vector has integrated. In addition, cells harboring such vectors can be screened using automated (e.g., 96-well plate format) gene identification assays such as 3' RACE (see generally, Frohman, 1994, PCR Methods and Applications, 4:S40-S58). Using these vectors it is possible to produce large numbers of mutations and rapidly identify the mutated, or trapped, gene by DNA sequence analysis.

### 3.0. SUMMARY OF THE INVENTION

The subject invention provides numerous isolated mammalian mutant cell clones that are each characterized by the insertion of a mutagenic genetically engineered polynucleotide sequence into a gene identifiable as corresponding to one or more of the OMNIBANK gene trapped sequences (GTSS) disclosed in Sequence Listing.

The subject invention further contemplates a mutated cell, and particularly a mutated ES cell, and the animals derived from such ES cell that stably maintain a genetically engineered mutation in a gene identifiable as corresponding to one of the disclosed GTSS.

### 4.0. DESCRIPTION OF THE SEQUENCE LISTING AND FIGURES

The Sequence Listing is a compilation of nucleotide sequences obtained by sequencing clonal lines of gene trapped murine ES cells.

Figures 1A-1C present a diagrammatic representation of representative gene trap vectors used to generate the described sequences.

Figure 2 provides an index to the Sequence Listing and the corresponding database accession numbers for the genes that have been mutated according to the present invention.

5                   **5.0. DETAILED DESCRIPTION OF THE INVENTION**

          The current invention relates to novel mutated mammalian cells that are each characterized by the insertion of a recombinant (*i.e.*, genetically engineered) mutagenic polynucleotide sequence into a gene identifiable as corresponding  
10   to one of the GTSS of SEQ ID NOS: 1-574.  
For the purposes of the present invention, the term "identifiable" is to be construed as indicating that a mammalian cell, and preferably, a murine ES cell, has been mutated by the insertion of a polynucleotide sequence of recombinantly  
15   manipulated origin at a genetic locus that normally comprises polynucleotide sequence, and/or post-spliced exonic sequence, that is at least partially described in one of the GTSS of Sequence Listing. One method of determining whether one of the described mutated mammalian cells has a mutation in a gene of  
20   interest is by comparing the polynucleotide sequence (or a corresponding amino acid sequence) of the GTS identifying the mutated locus to the full length sequence of the gene.  
Alternatively, such searches can be conducted by comparing the described GTS sequence to a well known database (such as, but not  
25   limited to GENBANK) using established computer algorithms including, but not limited to, BLASTX, FASTA, BLASTN, BLASTP, TBLASTN, and TBLASTX using the default parameters used, for example, at the National Center for Biotechnology Information web site ([www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov)). The GTSS reported in the Sequence  
30   Listing have been compared to such a database (GENBANK), and the accession numbers of the genes that have been mutated are presented in Figure 2. Accordingly, an additional aspect of the subject invention includes mutated mammalian, preferably murine, cells, or isolated cell lines, that have at least one engineered

mutation in a gene identified by GENBANK or GENESEQ (for example) accession number in Figure 2.

As used herein, the terms "mutated" or "mutation" mean that the genetic locus has been altered by a process involving the integration or incorporation of a genetically engineered polynucleotide sequence into the genome of the cell with the result that the subsequent levels of activity of the product normally encoded by the locus is altered (*i.e.*, reduced, increased, or substantially ablated). In those instances where the mutation substantially completely disrupts the expression or activity of the product normally encoded by the locus (*i.e.*, a null mutation), a cell that is heterozygous for the mutated allele will typically produce about one half of the product of a nonmutated cell (via a gene dosage effect), and about twice the amount of product produced by a cell that is homozygous for the mutant allele.

The term "recombinantly manipulated" shall mean that such compositions comprising such molecules or polynucleotides have been genetically engineered using molecular biology methodologies *in vitro* or *ex vivo* (see generally, Sambrook *et al.*, 1989, Molecular Cloning, A Laboratory Manual, Cold Springs Harbor Press, N.Y.; and Ausubel *et al.*, 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y.).

Where, the specifically exemplified mammalian cells, *i.e.*, embryonic stem cells (Lex-1 cells from murine strain A129), are mutated by a process involving the insertion of at least a portion of a genetically engineered vector sequence into the gene of interest, the mutated embryonic stem cells can be microinjected into blastocysts which are subsequently introduced into pseudopregnant female hosts and carried to term using established methods such as those described in, for example, "Mouse Mutagenesis", 1998, Zambrowicz *et al.*, eds., Lexicon Press, The Woodlands, TX, and periodic updates thereof, herein

incorporated by reference. The resulting chimeric animals are subsequently bred to produce offspring capable of germline transmission of an allele containing the engineered mutation in the gene of interest.

5 An alternative method of producing mutated cells and animals in the specifically exemplified genes involves the process of gene targeting by homologous recombination using methods such as those exemplified in U.S. Application Ser. No. 09/171,642, which is herein incorporated by reference in its entirety. Mutations  
10 produced using such methods include, but are not limited to knockout mutations, "knockin" mutations (where a human gene, for example, is used to replace its murine orthologs), can be conditional, can include point mutations, and mutations that activate gene expression. Some of the mutations described above  
15 (conditional mutations, point mutations, etc.) can be produced via processes that involve the substantial removal of vector encoded sequences (often recombines mediated) subsequent to the incorporation of the recombinantly manipulated sequences into the genome.

#### 20 **5.1. MUTATED MAMMALIAN CELLS OF THE PRESENT INVENTION**

The presently described mutated cells have genetically engineered mutations in genes identifiable as corresponding to, or normally comprising, at least a portion of a sequence reported in the  
25 Sequence Listing as SEQ ID NOS: 1-574. Additional embodiments of the present invention are cells comprising engineered mutations in homologs, paralogs, orthologs, etc., of the mutated genes disclosed in the Sequence Listing. Such homologs, paralogs, and orthologs include genes having sequences that hybridize to one or  
30 more of the disclosed GTSS of SEQ ID NOS: 1-574 under stringent, or preferably highly stringent, conditions. Hybridization conditions also provide an alternative means of identifying the mutated genes corresponding to the GTSS reported in the sequence listing. Typically, such genes will be identifiable because a

disclosed GTS, or portion thereof, shall hybridize to the gene under stringent conditions.

By way of example and not limitation, high stringency hybridization conditions can be defined as follows:

- 5 Prehybridization of filters containing DNA to be screened is carried out for 8 h to overnight at 65°C in a buffer containing 6X SSC, 50mM Tris-HCl (pH 7.5), 1mM EDTA, 0.02% PVP, 0.02% Ficoll, 0.02% BSA, and 500 µg/ml denatured salmon sperm DNA. Filters are hybridized for 48 h at 65°C in prehybridization
- 10 mixture containing 100µg/ml denatured salmon sperm DNA and 5-20 x 10<sup>6</sup> cpm of <sup>32</sup>P-labeled probe (alternatively, as in all hybridizations described herein, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used). The filters are then washed in approximately
- 15 1X wash mix (10X wash mix contains 3M NaCl, 0.6M Tris base, and 0.02M EDTA, alternatively, as with all washes described herein, 2X, 3X, 4X, 5X, 6X wash mix, or more, can be used) twice for 5 minutes each at room temperature, then in 1X wash mix containing 1% SDS at 60°C (alternatively, as in all washes described herein,
- 20 approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min, and finally in 0.3X wash mix (alternatively, as in all final washes described herein, approximately, 0.2X, 0.4X, 0.6X, 0.8X, 1X, or any concentration between about 2X and about 6X can be
- 25 used in conjunction with a suitable wash temperature) containing 0.1% SDS at 60°C (alternatively, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min. The filters are then air dried and exposed to x-ray film for autoradiography. In an
- 30 alternative protocol, washing of filters is done for 37°C for 1 h in a solution containing 2X SSC, 0.01% PVP, 0.01% Ficoll, and 0.01% BSA. This is followed by a wash in 0.1X SSC at 50°C for 45 min before autoradiography. Another example of hybridization under highly stringent conditions is hybridization to filter-



bound DNA in 0.5 M NaHPO<sub>4</sub>, 7% sodium dodecyl sulfate (SDS), 1 mM EDTA at 65°C, and washing in 0.1xSSC/0.1% SDS at 68°C (Ausubel F.M. et al., eds., 1989, Current Protocols in Molecular Biology, Vol. I, Green Publishing Associates, Inc., and John Wiley & sons, Inc., New York, at p. 2.10.3).

Alternatively, moderately stringent conditions can be used (e.g., washing in 0.2xSSC/0.1% SDS at 42° C (Ausubel et al., 1989, *supra*). Moderately stringent conditions can be additionally defined, for example, as follows: Filters containing DNA are pretreated for 6 h at 55°C in a solution containing 6X SSC, 5X Denhart's solution, 0.5% SDS and 100 µg/ml denatured salmon sperm DNA. Hybridizations are carried out in the same solution and 5-20 x 10<sup>6</sup> cpm <sup>32</sup>P-labeled probe is used. Filters are incubated in hybridization mixture for 18-20 h at 55°C (alternatively, as in all hybridizations described herein, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used in combination with a suitable concentration of salt). The filters are then washed in approximately 1X wash mix (10X wash mix contains 3M NaCl, 0.6M Tris base, and 0.02M EDTA, alternatively, as with all washes described herein, 2X, 3X, 4X, 5X, 6X wash mix, or more, can be used) twice for 5 minutes each at room temperature, then in 1X wash mix containing 1% SDS at 60°C (alternatively, as in all washes described herein, approximately, 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min, and finally in 0.3X wash mix (alternatively, as in all final washes described herein approximately 0.2X, 0.4X, 0.6X, 0.8X, 1X, or any concentration between about 2X and about 6X can be used in conjunction with a suitable wash temperature) containing 0.1% SDS at 60°C (alternatively, approximately 42, 44, 45, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min. The filters are then air dried and exposed to x-ray film for autoradiography.

In an alternative protocol, washing of filters is done twice for 30 minutes at 60°C in a solution containing 1X SSC and 0.1% SDS. Filters are blotted dry and exposed for autoradiography.

Other conditions of moderate stringency which may be used are well-known in the art. For example, washing of filters can be done at 37°C for 1 h in a solution containing 2X SSC, 0.1% SDS. Another example of hybridization under moderately stringent conditions is washing in 0.2xSSC/0.1% SDS at 42°C (Ausubel et al., 1989, *supra*). Such less stringent conditions may also be, for example, low stringency hybridization conditions. By way of example and not limitation, procedures using such conditions of low stringency are as follows (see also Shilo and Weinberg, 1981, Proc. Natl. Acad. Sci. USA 78:6789-6792): Filters containing DNA are pretreated for 6 h at 40°C in a solution containing 35% formamide, 5X SSC, 50mM Tris-HCl (pH 7.5), 5mM EDTA, 0.1% PVP, 0.1% Ficoll, 1% BSA, and 500 µg/ml denatured salmon sperm DNA. Hybridizations are carried out in the same solution with the following modifications: 0.02% PVP, 0.02% Ficoll, 0.2% BSA, 100µg/ml salmon sperm DNA, 10% (wt/vol) dextran sulfate, and 5-20 X 10<sup>6</sup> cpm <sup>32</sup>P-labeled probe is used. Filters are incubated in hybridization mixture for 18-20 h at 40°C (alternatively, as in all hybridizations described herein, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used). The filters are then washed in approximately 1X wash mix (10x wash mix contains 3M NaCl, 0.6M Tris base, and 0.02M EDTA, alternatively, as with all washes described herein, 2X, 3X, 4X, 5X, 6X wash mix, or more, can be used) twice for five minutes each at room temperature, then in 1X wash mix containing 1% SDS at 60°C (alternatively, as in all washes described herein, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min, and finally in 0.3X wash mix (alternatively, as in all final washes described herein, approximately, 0.2X, 0.4X, 0.6X, 0.8X, 1X, or any concentration

between about 2X and about 6X can be used in conjunction with a suitable wash temperature) containing 0.1% SDS at 60°C (alternatively, approximately 42, 44, 46, 48, 50, 52, 54, 56, 58, 62, 64, 66, 68, 70, or about 72 degrees or more can be used) for about 30 min. The filters are then air dried and exposed to x-ray film for autoradiography. In yet another alternative protocol, washing of filters is done for 1.5 h at 55°C in a solution containing 2X SSC, 25mM Tris-HCl (pH 7.4), 5mM EDTA, and 0.1% SDS. The wash solution is replaced with fresh solution and incubated an additional 1.5 h at 60°C. Filters are then blotted dry and exposed for autoradiography. If necessary, filters are washed for a third time at 65-68°C and reexposed to film. Other conditions of low stringency which may be used are well known in the art (e.g., as employed for cross-species hybridizations). Preferably, GTS variants identified or isolated using the above methods will also encode a functionally equivalent gene product (i.e., protein, polypeptide, or domain thereof, encoding or otherwise associated with a function or structure at least partially encoded by the complementary GTS).

Low stringency conditions are well known to those of skill in the art, and will vary predictably depending on the specific organisms from which the library and the labeled sequences are derived. For guidance regarding such conditions see, for example, Sambrook et al., 1989, Molecular Cloning, A Laboratory Manual, Cold Springs Harbor Press, N.Y.; and Ausubel et al., 1989, Current Protocols in Molecular Biology, Green Publishing Associates and Wiley Interscience, N.Y.

The identification of homologs, heterologs, or paralogs of SEQ ID NOS: 1-574 in other, preferably related, species can be useful for developing additional animal model systems that are closely related to humans for purposes of drug discovery. Genes at other genetic loci within the genome that encode proteins which have extensive homology to one or more domains of the gene products encoded by SEQ ID NOS: 1-574 can also be identified via

similar techniques. In the case of cDNA libraries, such screening techniques can identify clones derived from alternatively spliced transcripts in the same or different species.

5 Techniques useful to disrupt a gene in a cell and especially an ES cell that may already have a disrupted gene are disclosed in copending US patent applications Nos. 08/726,867; 08/728,963; 08/907,598; and 08/942,806, all of which are hereby incorporated herein by reference in their entirety, are within the scope of  
10 the current invention to disrupt a gene that encodes a polynucleotide of the current invention.

## **5.2. USES OF THE DESCRIBED MUTATED GENES AND ANIMALS**

The described mutated cells and animals are used to  
15 investigate and define the cellular and biological functions of the mutated genes. Producing a scientific model that accurately accounts for the large number of genes, proteins, and macromolecules within a single cell has thus far proved beyond the capabilities of existing computer technology. It should thus  
20 not be surprising that the far more complex task of modeling the various intricacies, cross and direct redundancies, and interrelated functions of the various metabolic and catabolic processes that occur within a single cell has also proven largely intractable to algorithmic methods of modeling and prediction.  
25 Even if one assumes that computer modeling of inherently chaotic/heuristic processes will rapidly mature in the near future, such methods, at best, can only provide predictions that subsequently require practical validation. Several decades of empirical data have proven that mutant phenotypes provide a  
30 valuable source of such validation.

The mutated diploid mammalian cells of the present invention will initially exist as mutated diploid cells that are heterozygous (except where genes on the X or Y chromosomes are mutated) for the mutations identified in the sequence listing.

As such, via a "gene dosage" effect, the mutated cells can typically be characterized by the fact that they produce about one half of the mutated transcript/activity relative to cells having two nonmutated or wild type copies of the corresponding gene.

When mutant animals are produced from the mutated cells, heterozygous animals capable of germline transmission of the mutated allele can be bred to produce embryos or offspring that are homozygous for the mutant allele. Such animals or embryos are a rich source of tissues and cells that do not express physiologically relevant amounts of the mutated genes or activities encoded thereby. Accordingly, an additional embodiment of the present invention are mutant cells and animals that have homozygous mutations in genes identifiable as corresponding to the GENBANK, or other database accession, numbers provided in Figure 2, or are identifiable as a homologs, paralog, or orthologs of a sequence provided in the Sequence Listing.

In addition to providing important information regarding the functional role of a given gene in its nonmutated state (*i.e.*, you learn about the function of the gene by discerning the effects of reducing or ablating the activity normally encoded by the gene), the described mutated cells and animals can be used as disease models, or in assays for compounds or genes (via gene delivery or transgenic methods) that compensate for the mutant phenotype and that can be used to treat diseases and disorders related to the observed phenotype. Alternatively, such products and genes can also be used to enhance desirable, if not normal, symptoms related to the observed phenotypes.

The gene replacement/delivery therapies described above should be capable of delivering gene sequences to the cell types within patients which express the peptide or protein having the desired activity.

The examples below are provided to illustrate the subject invention. These examples are provided by way of illustration and are not included for the purpose of limiting the invention in any way whatsoever.

5

## 6.0. EXAMPLES

### 6.1. GENERATION OF A LIBRARY OF MUTATED MOUSE ES CELLS DEFINED BY GTS SEQUENCES

10       The retroviral vector VICTR 3, described in detail in U.S. application Ser. No. 08/728,963, filed October 11, 1996, was used to generate a library of gene trapped ES cell clones that represent a portion of the described GTSs. A plasmid containing the VICTR 3 cassette was constructed by conventional cloning  
15 techniques and designed to employ the features described above. Namely, the cassette contained a *PGK* promoter directing transcription of an exon that encodes the *puro* marker and ends in a canonical splice donor sequence. At the end of the puromycin exon, sequences were added as described that allow for the  
20 annealing of two nested PCR and sequencing primers. The vector backbone was based on pBluescript KS+ from Stratagene Corporation.

      The plasmid construct was linearized by digestion with *Sca* I which cuts at a unique site in the plasmid backbone. The plasmid  
25 was then transfected into the mouse ES cell line AB2.2 by electroporation using a BioRad Genepulser apparatus. After the cells were allowed to recover, gene trap clones were selected by adding puromycin to the medium at a final concentration of 3  $\mu$ g/ml. Positive clones were allowed to grow under selection for  
30 approximately 10 days before being removed and cultured separately for storage and to determine the sequence of the disrupted gene.

      Total RNA was isolated from an aliquot of cells from each of 18 gene trap clones chosen for study. Five micrograms of this  
35 RNA was used in a first strand cDNA synthesis reaction using the

"RS" primer. This primer has unique sequences (for subsequent PCR) on its 5' end and nine random nucleotides or nine T (thymidine) residues on its 3' end. Reaction products from the first strand synthesis were added directly to a PCR with outer primers specific for the engineered sequences of puromycin and the "RS" primer. After amplification, an aliquot of reaction products were subject to a second round of amplification using primers internal, or nested, relative to the first set of PCR primers. This second amplification provided more reaction product for sequencing and also provided increased specificity for the specifically gene trapped DNA.

The products of the nested PCR were visualized by agarose gel electrophoresis, and seventeen of the eighteen clones provided at least one band that was visible on the gel with ethidium bromide staining. Most gave only a single band which is an advantage in that a single band is generally easier to sequence. The PCR products were sequenced directly after excess PCR primers and nucleotides were removed by filtration in a spin column (Centricon-100, Amicon). DNA was added directly to dye terminator sequencing reactions (purchased from ABI) using the standard M13 forward primer a region for which was built into the end of the *puro* exon in all of the PCR fragments.

Subsequent studies have used both VICTR 3 and VICTR 20. Like VICTR 3, VICTR 20 is exemplary of a family of vectors that incorporate two main functional units: a sequence acquisition component having a strong promoter element (phosphoglycerate kinase 1) active in ES cells that is fused to the puromycin resistance gene (or other exon sequence) that is followed by a synthetic consensus splice donor (SD) sequence and lacks an operatively positioned polyadenylation sequence downstream from the SD sequence (PGKpuroSD); and 2) a mutagenic component that incorporates a splice acceptor sequence fused to a selectable and/or colorimetric marker gene and followed by a polyadenylation

sequence (for example, SA $\beta$ geopA, SaneopA, SAIRESneopA, or SAIRES $\beta$ geopA).

Also like VICTR 3, stop codons have been engineered into all three reading frames in the region between the 3' end of the selectable marker and the splice donor site. A diagrammatic description of structure and functions of VICTRs 3 and 20 is provided in Figure 1.

When VICTRs 3, 20, and various variations thereof such as the vectors and methods described in U.S. Applications Ser. Nos. 09/276,533, and 60/095,989 (the disclosures of which are herein incorporated by reference), were used in the commercial scale application of the presently disclosed invention, many mutagenized ES cell clones were rapidly engineered and obtained. Sequence analysis obtained from these clones has identified a wide variety of sequences. Each of the sequences presented in SEQ ID NOS: 1-574 identify novel mutations in the coding regions of mammalian genes that identifiable as corresponding to the sequences presented in the Sequence Listing. Alternatively, the described mutated cells are described by the database (GENBANK, GENSEQ, etc.) accession numbers for the corresponding genes that have been mutated (see Figure 2). The described mutated cells, and preferably ES cells, provide a valuable resource for defining, evaluating, or validating the biological function or disease/pharmaceutical relevance of each of these genes.

The cloned 3' RACE products resulting after the target ES cells were infected with one of the described gene trap vectors were purified using conventional column chromatography, (e.g., S300 and G-50 columns), and the products were recovered by centrifugation. Purified PCR products were quantified by fluorescence using PicoGreen (Molecular Probes, Inc., Eugene Oregon) as per the manufacturer's instructions.

Dye terminator cycle sequencing reactions with AmpliTaq® FS DNA polymerase (Perkin Elmer Applied Biosystems, Foster City, CA) were carried out using approximately 7 pmoles of sequencing



primer, and approximately 30-120 ng of 3' template.

Unincorporated dye terminators were removed from the completed sequencing reactions using G-50 columns as described above. The reactions were dried under vacuum, resuspended in loading buffer, and electrophoresed through a 6% Long Ranger acrylamide gel (FMC BioProducts, Rockland, ME) on an ABI Prism® 377 with XL upgrade as per the manufacturer's instructions. The sequences of the resulting amplicons, or GTSSs, are described in SEQ ID NOS: 1-574.

All publications and patents mentioned in the above specification are herein incorporated by reference. Various modifications and variations of the described method and system of the invention will be apparent to those skilled in the art without departing from the scope and spirit of the invention. Although the invention has been described in connection with specific preferred embodiments, it should be understood that the invention as claimed should not be unduly limited to such specific embodiments. Indeed, various modifications of the above-described modes for carrying out the invention which are obvious to those skilled in the field of molecular biology or related fields are intended to be within the scope of the following claims.

## CLAIMS

### **WHAT IS CLAIMED IS:**

1. A genetically engineered mammalian cell that has been  
5 mutated by a process comprising the insertion of a recombinantly  
manipulated polynucleotide sequence into a gene in said  
genetically engineered mammalian cell wherein said gene is  
identifiable as corresponding to at least one of SEQ ID NOS: 1-  
574.
- 10
2. The genetically engineered mammalian cell of Claim 1,  
wherein said cell is murine.
3. A cell according to Claim 2, wherein said cell is an  
15 embryonic stem cell.
4. The genetically engineered mammalian cell of Claim 1,  
wherein said polynucleotide sequence is present on a viral  
vector.
- 20
5. A cell according to Claim 4, wherein said viral vector  
is a retroviral vector.
6. A cell according to Claim 4, wherein said viral vector  
25 additionally comprises regions of targeting DNA that facilitate  
gene targeting by homologous recombination.
7. An isolated murine embryonic stem cell line comprising  
an engineered retroviral gene trap vector in at least one gene  
30 comprising a polynucleotide sequence first disclosed in one of  
SEQ ID NOS: 1-574.

# ABSTRACT

Novel mutated mammalian cells are provided that have been characterized by identifying the sequence of the genes that have been mutated. Preferably, novel mutated cells are murine ES cells that stably incorporate retroviral gene trap constructs in the specifically identified genes. The novel mutated cells and animals are useful in functional genomic analysis, and in the discovery and development of new therapeutic and diagnostics agents and methods.

10



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 OST90965 OC17285 (Similar To: AA072207) Thu Sep 30 14:38:14 1999  
 OST91076 OC5294 (Similar To: U90123) Thu Sep 30 14:38:14 1999

FIGURE 2

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OST91346 OC17318 (Similar To: Z11886) Thu Sep 30 14:38:14 1999  
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OST91438 OC17332 (Similar To: AA591207) Thu Sep 30 14:38:14 1999  
OST91479 OC17337 (Similar To: AI663069) Thu Sep 30 14:38:14 1999  
OST91579 OC17346 (Similar To: U92807) Thu Sep 30 14:38:14 1999  
OST91602 OC17349 (Similar To: AA060132) Thu Sep 30 14:38:14 1999  
OST91637 OC17353 (Similar To: AA408690) Thu Sep 30 14:38:14 1999  
OST91769 OC17358 (Similar To: X86405) Thu Sep 30 14:38:14 1999  
OST91783 OC17361 (Similar To: X15962) Thu Sep 30 14:38:14 1999  
OST91841 OC17376 (Similar To: W76733) Thu Sep 30 14:38:14 1999  
OST91885 OC17379 (Similar To: L29790) Thu Sep 30 14:38:14 1999  
OST91902 OC17382 (Similar To: AI226731) Thu Sep 30 14:38:14 1999  
OST91931 OC17388 (Similar To: AA213113) Thu Sep 30 14:38:14 1999  
OST92000 OC17392 (Similar To: AA545005) Thu Sep 30 14:38:14 1999  
OST92095 OC17397 (Similar To: AF061177) Thu Sep 30 14:38:14 1999  
OST92126 OC17404 (Similar To: AA960243) Thu Sep 30 14:38:14 1999  
OST92182 OC17407 (Similar To: AF079366) Thu Sep 30 14:38:14 1999  
OST92204 OC17408 (Similar To: J03023) Thu Sep 30 14:38:14 1999  
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OST92287 OC17422 (Similar To: Y00864) Thu Sep 30 14:38:14 1999  
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OST92497 OC17454 (Similar To: AU024647) Thu Sep 30 14:38:14 1999  
OST92507 OC17455 (Similar To: AA690046) Thu Sep 30 14:38:14 1999  
OST92556 OC17462 (Similar To: Y07692) Thu Sep 30 14:38:14 1999  
OST92569 OC17464 (Similar To: AU017612) Thu Sep 30 14:38:14 1999  
OST92577 OC17467 (Similar To: D21099) Thu Sep 30 14:38:14 1999  
OST92714 OC17484 (Similar To: AA068279) Thu Sep 30 14:38:14 1999  
OST92800 OC17489 (Similar To: U43844) Thu Sep 30 14:38:14 1999  
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OST93273 OC17530 (Similar To: AI048476) Thu Sep 30 14:38:14 1999  
OST93360 OC17537 (Similar To: AA673054) Thu Sep 30 14:38:14 1999  
OST93365 OC17538 (Similar To: R74853) Thu Sep 30 14:38:14 1999

**FIGURE 2**

OST93384 OC9522 (Similar To: U28385) Thu Sep 30 14:38:14 1999  
 OST93407 OC17545 (Similar To: AU051773) Thu Sep 30 14:38:14 1999  
 OST93567 OC17550 (Similar To: AF126798) Thu Sep 30 14:38:14 1999  
 OST93750 OC17551 (Similar To: AU051064) Thu Sep 30 14:38:14 1999  
 OST93851 OC17552 (Similar To: AB005549) Thu Sep 30 14:38:14 1999  
 OST94206 OC17559 (Similar To: AI642569) Thu Sep 30 14:38:14 1999  
 OST94355 OC17570 (Similar To: AI552283) Thu Sep 30 14:38:14 1999  
 OST94637 OC17582 (Similar To: AF039601) Thu Sep 30 14:38:14 1999  
 OST94704 OC17592 (Similar To: AI450122) Thu Sep 30 14:38:14 1999  
 OST94840 OC17609 (Similar To: AA023276) Thu Sep 30 14:38:14 1999  
 OST95178 OC17616 (Similar To: U34281) Thu Sep 30 14:38:14 1999  
 OST92111 OC17400 (Similar To: L37525) Thu Sep 30 14:38:14 1999  
 OST91009 OC17286 (Similar To: AI317333) Thu Sep 30 14:38:14 1999  
 OST93142 OC17517 (Similar To: W09924) Thu Sep 30 14:38:14 1999  
 OST92679 OC17479 (Similar To: D89801) Thu Sep 30 14:38:14 1999  
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 OST95840 OC17623 (Similar To: AI644538) Thu Sep 30 14:38:14 1999  
 OST95843 OC17624 (Similar To: AC007080) Thu Sep 30 14:38:14 1999  
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 OST97058 OC17753 (Similar To: AF099154) Thu Sep 30 14:38:14 1999  
 OST97177 OC17760 (Similar To: AA545148) Thu Sep 30 14:38:14 1999  
 OST97196 OC17762 (Similar To: D10627) Thu Sep 30 14:38:14 1999  
 OST97200 OC17763 (Similar To: X97755) Thu Sep 30 14:38:14 1999  
 OST31291 OC4270 (Similar To: AI325508) Thu Sep 30 14:38:14 1999  
 OST34409 OC6581 (Similar To: M64986) Thu Sep 30 14:38:14 1999  
 OST97351 OC6902 (Similar To: U21871) Thu Sep 30 14:38:14 1999  
 OST97365 OC6220 (Similar To: L10415) Thu Sep 30 14:38:14 1999  
 OST97368 OC17778 (Similar To: M16229) Thu Sep 30 14:38:14 1999  
 OST97398 OC7215 (Similar To: AJ003007) Thu Sep 30 14:38:14 1999  
 OST97403 OC17782 (Similar To: AF068780) Thu Sep 30 14:38:14 1999

**FIGURE 2**

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 OST97536 OC17798 (Similar To: AC002324) Thu Sep 30 14:38:14 1999  
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 OST68096 OC2146 (Similar To: AF109719) Thu Sep 30 14:38:14 1999  
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 OST97576 OC17804 (Similar To: AF073797) Thu Sep 30 14:38:14 1999  
 OST97597 OC17808 (Similar To: L41351) Thu Sep 30 14:38:14 1999  
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 OST84027 OC16617 (Similar To: AA886733) Thu Sep 30 14:38:14 1999  
 OST55551 OC10186 (Similar To: AA562739) Thu Sep 30 14:38:14 1999  
 OST97720 OC17822 (Similar To: AB023174) Thu Sep 30 14:38:14 1999  
 OST29644 OC6254 (Similar To: D38379) Thu Sep 30 14:38:14 1999  
 OST79490 OC13294 (Similar To: U66413) Thu Sep 30 14:38:14 1999  
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 OST97828 OC17837 (Similar To: AA060967) Thu Sep 30 14:38:14 1999  
 OST67710 OC7294 (Similar To: AF068615) Thu Sep 30 14:38:14 1999  
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 OST97947 OC6436 (Similar To: AA597292) Thu Sep 30 14:38:14 1999  
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 OST34323 OC2477 (Similar To: AA703341) Thu Sep 30 14:38:14 1999  
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**FIGURE 2**  
4 of 14



OST98051 OC17869 (Similar To: AI144669) Thu Sep 30 14:38:14 1999  
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 OST98096 OC17876 (Similar To: AA856269) Thu Sep 30 14:38:14 1999  
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 OST98133 OC17878 (Similar To: AI326260) Thu Sep 30 14:38:14 1999  
 OST98152 OC17880 (Similar To: AI482297) Thu Sep 30 14:38:14 1999  
 OST98154 OC17881 (Similar To: AA945377) Thu Sep 30 14:38:14 1999  
 OST624 OC334 (Similar To: L38437) Thu Sep 30 14:38:14 1999  
 OST49897 OC11071 (Similar To: AA415785) Thu Sep 30 14:38:14 1999  
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 OST98402 OC17921 (Similar To: AA986920) Thu Sep 30 14:38:14 1999  
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 OST37094 OC6501 (Similar To: AI047048) Thu Sep 30 14:38:14 1999

**FIGURE 2**  
 5 of 14

OST98484 OC17932 (Similar To: AA024036) Thu Sep 30 14:38:14 1999  
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 OST98573 OC17942 (Similar To: AA606593) Thu Sep 30 14:38:14 1999  
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 OST98583 OC17945 (Similar To: AA016906) Thu Sep 30 14:38:14 1999  
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 OST98620 OC17952 (Similar To: AA124177) Thu Sep 30 14:38:14 1999  
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 OST98663 OC17959 (Similar To: AA111281) Thu Sep 30 14:38:14 1999  
 OST49297 OC11010 (Similar To: M91670) Thu Sep 30 14:38:14 1999  
 OST52669 OC11607 (Similar To: X53824) Thu Sep 30 14:38:14 1999  
 OST431 OC226 (Similar To: AF031483) Thu Sep 30 14:38:14 1999  
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 OST98742 OC17966 (Similar To: AB006463) Thu Sep 30 14:38:14 1999  
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 OST98941 OC17982 (Similar To: AI116826) Thu Sep 30 14:38:14 1999  
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 OST98975 OC18003 (Similar To: AV044111) Thu Sep 30 14:38:14 1999  
 OST98984 OC18005 (Similar To: AI391150) Thu Sep 30 14:38:14 1999  
 OST99001 OC18007 (Similar To: AA033434) Thu Sep 30 14:38:14 1999  
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 OST99082 OC18020 (Similar To: M17412) Thu Sep 30 14:38:14 1999  
 OST99117 OC18026 (Similar To: AU035817) Thu Sep 30 14:38:14 1999  
 OST99131 OC18031 (Similar To: D87908) Thu Sep 30 14:38:14 1999  
 OST99216 OC18039 (Similar To: AI552250) Thu Sep 30 14:38:14 1999  
 OST99251 OC18046 (Similar To: AI448436) Thu Sep 30 14:38:14 1999  
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 OST99299 OC18051 (Similar To: U06837) Thu Sep 30 14:38:14 1999  
 OST23606 OC364 (Similar To: AI614667) Thu Sep 30 14:38:14 1999  
 OST99400 OC18066 (Similar To: AA049038) Thu Sep 30 14:38:14 1999  
 OST99561 OC18078 (Similar To: X82564) Thu Sep 30 14:38:14 1999

**FIGURE 2**

OST99586 OC18086 (Similar To: AA240525) Thu Sep 30 14:38:14 1999  
 OST99601 OC18089 (Similar To: H32431) Thu Sep 30 14:38:14 1999  
 OST103257 OC3145 (Similar To: AA624788) Thu Sep 30 14:38:14 1999  
 OST99655 OC18095 (Similar To: U94700) Thu Sep 30 14:38:14 1999  
 OST99697 OC18103 (Similar To: AA066565) Thu Sep 30 14:38:14 1999  
 OST99782 OC18113 (Similar To: W54068) Thu Sep 30 14:38:14 1999  
 OST99565 OC8861 (Similar To: L31932) Thu Sep 30 14:38:14 1999  
 OST99886 OC9843 (Similar To: AA538007) Thu Sep 30 14:38:14 1999  
 OST92572 OC17465 (Similar To: AI661941) Thu Sep 30 14:38:14 1999  
 OST99955 OC18126 (Similar To: AC003063) Thu Sep 30 14:38:14 1999  
 OST99994 OC18131 (Similar To: AA237950) Thu Sep 30 14:38:14 1999  
 OST100038 OC18138 (Similar To: V00842) Thu Sep 30 14:38:14 1999  
 OST100067 OC18145 (Similar To: AJ010350) Thu Sep 30 14:38:14 1999  
 OST100100 OC18150 (Similar To: AI703855) Thu Sep 30 14:38:14 1999  
 OST104317 OC18155 (Similar To: AV042567) Thu Sep 30 14:38:14 1999  
 OST100148 OC9453 (Similar To: X75855) Thu Sep 30 14:38:14 1999  
 OST100165 OC18159 (Similar To: AA209580) Thu Sep 30 14:38:14 1999  
 OST100236 OC18171 (Similar To: D13208) Thu Sep 30 14:38:14 1999  
 OST40169 OC510 (Similar To: X06115) Thu Sep 30 14:38:14 1999  
 OST100297 OC18178 (Similar To: AA000215) Thu Sep 30 14:38:14 1999  
 OST111069 OC10480 (Similar To: AA562690) Thu Sep 30 14:38:14 1999  
 OST100336 OC18185 (Similar To: U29500) Thu Sep 30 14:38:14 1999  
 OST102200 OC18186 (Similar To: AA555888) Thu Sep 30 14:38:14 1999  
 OST100365 OC18191 (Similar To: M97812) Thu Sep 30 14:38:14 1999  
 OST100436 OC18200 (Similar To: AF090326) Thu Sep 30 14:38:14 1999  
 OST100437 OC18201 (Similar To: J02756) Thu Sep 30 14:38:14 1999  
 OST100497 OC18209 (Similar To: AA122589) Thu Sep 30 14:38:14 1999  
 OST100501 OC18210 (Similar To: Y00848) Thu Sep 30 14:38:14 1999  
 OST100503 OC18211 (Similar To: W53543) Thu Sep 30 14:38:14 1999  
 OST92874 OC17497 (Similar To: AI182419) Thu Sep 30 14:38:14 1999  
 OST100628 OC18227 (Similar To: AI173791) Thu Sep 30 14:38:14 1999  
 OST100637 OC8661 (Similar To: AB003113) Thu Sep 30 14:38:14 1999  
 OST100659 OC18234 (Similar To: AJ007909) Thu Sep 30 14:38:14 1999  
 OST78213 OC915 (Similar To: AI448395) Thu Sep 30 14:38:14 1999  
 OST100736 OC18248 (Similar To: AI315939) Thu Sep 30 14:38:14 1999  
 OST100738 OC18249 (Similar To: AI410900) Thu Sep 30 14:38:14 1999  
 OST100757 OC18252 (Similar To: U35323) Thu Sep 30 14:38:14 1999  
 OST100774 OC18254 (Similar To: AC005742) Thu Sep 30 14:38:14 1999  
 OST100797 OC18258 (Similar To: X68647) Thu Sep 30 14:38:14 1999  
 OST100802 OC18260 (Similar To: U37353) Thu Sep 30 14:38:14 1999  
 OST100894 OC18273 (Similar To: AF073297) Thu Sep 30 14:38:14 1999  
 OST98358 OC17909 (Similar To: AA964365) Thu Sep 30 14:38:14 1999

**FIGURE 2**

OST100937 OC18278 (Similar To: C89519) Thu Sep 30 14:38:14 1999  
 OST100992 OC18283 (Similar To: AV042016) Thu Sep 30 14:38:14 1999  
 OST101094 OC18296 (Similar To: U76759) Thu Sep 30 14:38:14 1999  
 OST101305 OC18317 (Similar To: X70472) Thu Sep 30 14:38:14 1999  
 OST101319 OC18318 (Similar To: AJ002636) Thu Sep 30 14:38:14 1999  
 OST101338 OC18320 (Similar To: AI466791) Thu Sep 30 14:38:14 1999  
 OST101346 OC18322 (Similar To: Z50192) Thu Sep 30 14:38:14 1999  
 OST101368 OC18325 (Similar To: AI481250) Thu Sep 30 14:38:14 1999  
 OST101376 OC18327 (Similar To: AC004407) Thu Sep 30 14:38:14 1999  
 OST101386 OC18330 (Similar To: AV036188) Thu Sep 30 14:38:14 1999  
 OST101510 OC18345 (Similar To: U42624) Thu Sep 30 14:38:14 1999  
 OST101512 OC18346 (Similar To: AF051726) Thu Sep 30 14:38:14 1999  
 OST101516 OC18347 (Similar To: AI662973) Thu Sep 30 14:38:14 1999  
 OST101560 OC18357 (Similar To: X99641) Thu Sep 30 14:38:14 1999  
 OST101625 OC18363 (Similar To: X99946) Thu Sep 30 14:38:14 1999  
 OST101636 OC18365 (Similar To: AI643662) Thu Sep 30 14:38:14 1999  
 OST101647 OC18367 (Similar To: U83176) Thu Sep 30 14:38:14 1999  
 OST101734 OC18371 (Similar To: U61111) Thu Sep 30 14:38:14 1999  
 OST101772 OC18374 (Similar To: AF044174) Thu Sep 30 14:38:14 1999  
 OST101848 OC18379 (Similar To: AA615946) Thu Sep 30 14:38:14 1999  
 OST101861 OC18380 (Similar To: AA718203) Thu Sep 30 14:38:14 1999  
 OST101943 OC18385 (Similar To: AI324125) Thu Sep 30 14:38:14 1999  
 OST101969 OC18386 (Similar To: AI482242) Thu Sep 30 14:38:14 1999  
 OST101996 OC18388 (Similar To: AA008234) Thu Sep 30 14:38:14 1999  
 OST102014 OC18389 (Similar To: AI606807) Thu Sep 30 14:38:14 1999  
 OST102116 OC18402 (Similar To: M17243) Thu Sep 30 14:38:14 1999  
 OST102190 OC18410 (Similar To: AI122275) Thu Sep 30 14:38:14 1999  
 OST102365 OC18428 (Similar To: U13878) Thu Sep 30 14:38:14 1999  
 OST102384 OC18431 (Similar To: AA106674) Thu Sep 30 14:38:14 1999  
 OST102404 OC18435 (Similar To: AB020886) Thu Sep 30 14:38:14 1999  
 OST102446 OC18439 (Similar To: AF051348) Thu Sep 30 14:38:14 1999  
 OST102476 OC18444 (Similar To: AI448362) Thu Sep 30 14:38:14 1999  
 OST102512 OC18451 (Similar To: AC002406) Thu Sep 30 14:38:14 1999  
 OST102569 OC18458 (Similar To: AA655467) Thu Sep 30 14:38:14 1999  
 OST102740 OC18498 (Similar To: AA624788) Thu Sep 30 14:38:14 1999  
 OST102797 OC18507 (Similar To: X53081) Thu Sep 30 14:38:14 1999  
 OST102833 OC18512 (Similar To: AI552379) Thu Sep 30 14:38:14 1999  
 OST102891 OC18526 (Similar To: AC005742) Thu Sep 30 14:38:14 1999  
 OST102911 OC18531 (Similar To: AI451777) Thu Sep 30 14:38:14 1999  
 OST80033 OC7809 (Similar To: AA208937) Thu Sep 30 14:38:14 1999  
 OST102954 OC18541 (Similar To: L31840) Thu Sep 30 14:38:14 1999  
 OST103043 OC18553 (Similar To: M33385) Thu Sep 30 14:38:14 1999

**FIGURE 2**  
 8 of 14

OST37918 OC8835 (Similar To: U68182) Thu Sep 30 14:38:14 1999  
OST103062 OC18557 (Similar To: AA544462) Thu Sep 30 14:38:14 1999  
OST91628 OC17352 (Similar To: AI406661) Thu Sep 30 14:38:14 1999  
OST103176 OC18578 (Similar To: AA498813) Thu Sep 30 14:38:14 1999  
OST103191 OC18583 (Similar To: AB016963) Thu Sep 30 14:38:14 1999  
OST103269 OC18595 (Similar To: M32071) Thu Sep 30 14:38:14 1999  
OST103282 OC18598 (Similar To: AI551580) Thu Sep 30 14:38:14 1999  
OST103306 OC18601 (Similar To: AI117475) Thu Sep 30 14:38:14 1999  
OST103313 OC18604 (Similar To: AC005960) Thu Sep 30 14:38:14 1999  
OST103365 OC18611 (Similar To: AA027717) Thu Sep 30 14:38:14 1999  
OST77866 OC10636 (Similar To: M93264) Thu Sep 30 14:38:14 1999  
OST32175 OC6994 (Similar To: AI045566) Thu Sep 30 14:38:14 1999  
OST103500 OC18627 (Similar To: AI158711) Thu Sep 30 14:38:14 1999  
OST90697 OC17258 (Similar To: AA109830) Thu Sep 30 14:38:14 1999  
OST103585 OC18642 (Similar To: AA645000) Thu Sep 30 14:38:14 1999  
OST103612 OC18653 (Similar To: AI226654) Thu Sep 30 14:38:14 1999  
OST103632 OC18656 (Similar To: AA791497) Thu Sep 30 14:38:14 1999  
OST103675 OC18664 (Similar To: AJ222968) Thu Sep 30 14:38:14 1999  
OST103784 OC18671 (Similar To: AV043672) Thu Sep 30 14:38:14 1999  
OST103935 OC18685 (Similar To: AA107240) Thu Sep 30 14:38:14 1999  
OST103941 OC18687 (Similar To: U58337) Thu Sep 30 14:38:14 1999  
OST104056 OC18693 (Similar To: AI172058) Thu Sep 30 14:38:14 1999  
OST104114 OC18696 (Similar To: AA185951) Thu Sep 30 14:38:14 1999  
OST104179 OC18703 (Similar To: AB009371) Thu Sep 30 14:38:14 1999  
OST104217 OC18704 (Similar To: AC003063) Thu Sep 30 14:38:14 1999  
OST104220 OC18705 (Similar To: AA060976) Thu Sep 30 14:38:14 1999  
OST104322 OC18717 (Similar To: AU041129) Thu Sep 30 14:38:14 1999  
OST104386 OC18727 (Similar To: U63386) Thu Sep 30 14:38:14 1999  
OST104435 OC18735 (Similar To: AA955274) Thu Sep 30 14:38:14 1999  
OST104461 OC18737 (Similar To: AF046060) Thu Sep 30 14:38:14 1999  
OST104538 OC18746 (Similar To: AA644811) Thu Sep 30 14:38:14 1999  
OST104551 OC18750 (Similar To: AA199100) Thu Sep 30 14:38:14 1999  
OST104599 OC18755 (Similar To: AI195350) Thu Sep 30 14:38:14 1999  
OST104610 OC18760 (Similar To: U27268) Thu Sep 30 14:38:14 1999  
OST104675 OC18772 (Similar To: U84725) Thu Sep 30 14:38:14 1999  
OST104677 OC18774 (Similar To: U76373) Thu Sep 30 14:38:14 1999  
OST59488 OC12491 (Similar To: W96857) Thu Sep 30 14:38:14 1999  
OST105532 OC18782 (Similar To: AA939372) Thu Sep 30 14:38:14 1999  
OST104750 OC18783 (Similar To: E00593) Thu Sep 30 14:38:14 1999  
OST104761 OC18785 (Similar To: AA220132) Thu Sep 30 14:38:14 1999  
OST104778 OC18788 (Similar To: AI427509) Thu Sep 30 14:38:14 1999  
OST104862 OC18798 (Similar To: Y15465) Thu Sep 30 14:38:14 1999

**FIGURE 2**

OST104931 OC18809 (Similar To: AI098029) Thu Sep 30 14:38:14 1999  
 OST105045 OC18825 (Similar To: AI021488) Thu Sep 30 14:38:14 1999  
 OST105067 OC18829 (Similar To: AV004732) Thu Sep 30 14:38:14 1999  
 OST105091 OC18833 (Similar To: AA940318) Thu Sep 30 14:38:14 1999  
 OST105173 OC18846 (Similar To: AA511161) Thu Sep 30 14:38:14 1999  
 OST105181 OC18849 (Similar To: L12458) Thu Sep 30 14:38:14 1999  
 OST105203 OC18850 (Similar To: AA497854) Thu Sep 30 14:38:14 1999  
 OST105205 OC18851 (Similar To: U21050) Thu Sep 30 14:38:14 1999  
 OST105439 OC18870 (Similar To: X52191) Thu Sep 30 14:38:14 1999  
 OST9307 OC1889 (Similar To: AI592419) Thu Sep 30 14:38:14 1999  
 OST105453 OC18872 (Similar To: C79730) Thu Sep 30 14:38:14 1999  
 OST47120 OC10746 (Similar To: AA387535) Thu Sep 30 14:38:14 1999  
 OST105476 OC18874 (Similar To: AA000443) Thu Sep 30 14:38:14 1999  
 OST105533 OC18879 (Similar To: AC005938) Thu Sep 30 14:38:14 1999  
 OST105556 OC4065 (Similar To: AA277365) Thu Sep 30 14:38:14 1999  
 OST105566 OC18882 (Similar To: AA197595) Thu Sep 30 14:38:14 1999  
 OST105584 OC18883 (Similar To: AI604572) Thu Sep 30 14:38:14 1999  
 OST105597 OC18885 (Similar To: AI233254) Thu Sep 30 14:38:14 1999  
 OST54916 OC6460 (Similar To: Y07783) Thu Sep 30 14:38:14 1999  
 OST105640 OC18894 (Similar To: AI323941) Thu Sep 30 14:38:14 1999  
 OST105765 OC18906 (Similar To: AA959545) Thu Sep 30 14:38:14 1999  
 OST105829 OC5715 (Similar To: AA673279) Thu Sep 30 14:38:14 1999  
 OST105996 OC18920 (Similar To: W83911) Thu Sep 30 14:38:14 1999  
 OST106041 OC18922 (Similar To: AA036594) Thu Sep 30 14:38:14 1999  
 OST106073 OC18925 (Similar To: AA035834) Thu Sep 30 14:38:14 1999  
 OST106098 OC18932 (Similar To: AI020321) Thu Sep 30 14:38:14 1999  
 OST106313 OC18958 (Similar To: AA189644) Thu Sep 30 14:38:14 1999  
 OST106315 OC18959 (Similar To: AC005403) Thu Sep 30 14:38:14 1999  
 OST106332 OC18962 (Similar To: AA444862) Thu Sep 30 14:38:14 1999  
 OST106334 OC18963 (Similar To: L05567) Thu Sep 30 14:38:14 1999  
 OST106357 OC18966 (Similar To: AA189644) Thu Sep 30 14:38:14 1999  
 OST106514 OC18979 (Similar To: AI316687) Thu Sep 30 14:38:14 1999  
 OST106581 OC18986 (Similar To: D14570) Thu Sep 30 14:38:14 1999  
 OST106594 OC18987 (Similar To: AA124650) Thu Sep 30 14:38:14 1999  
 OST106602 OC18988 (Similar To: X68283) Thu Sep 30 14:38:14 1999  
 OST106688 OC18996 (Similar To: U88328) Thu Sep 30 14:38:14 1999  
 OST106722 OC19004 (Similar To: AV000089) Thu Sep 30 14:38:14 1999  
 OST106728 OC19007 (Similar To: AU067280) Thu Sep 30 14:38:14 1999  
 OST106731 OC19008 (Similar To: U34932) Thu Sep 30 14:38:14 1999  
 OST106749 OC19013 (Similar To: AI595006) Thu Sep 30 14:38:14 1999  
 OST106770 OC19019 (Similar To: AA959452) Thu Sep 30 14:38:14 1999  
 OST106811 OC19028 (Similar To: AI643337) Thu Sep 30 14:38:14 1999

OST106856 OC19033 (Similar To: AU067347) Thu Sep 30 14:38:14 1999  
OST106869 OC19037 (Similar To: AC005818) Thu Sep 30 14:38:14 1999  
OST106881 OC19041 (Similar To: AA041850) Thu Sep 30 14:38:14 1999  
OST106890 OC19045 (Similar To: AA832824) Thu Sep 30 14:38:14 1999  
OST106939 OC19051 (Similar To: X98038) Thu Sep 30 14:38:14 1999  
OST107012 OC19060 (Similar To: AB014471) Thu Sep 30 14:38:14 1999  
OST107051 OC19067 (Similar To: L00014) Thu Sep 30 14:38:14 1999  
OST107151 OC17614 (Similar To: D13121) Thu Sep 30 14:38:14 1999  
OST107244 OC19086 (Similar To: AI153399) Thu Sep 30 14:38:14 1999  
OST107292 OC19094 (Similar To: AA471918) Thu Sep 30 14:38:14 1999  
OST107332 OC19096 (Similar To: AA855257) Thu Sep 30 14:38:14 1999  
OST107356 OC19100 (Similar To: AA161864) Thu Sep 30 14:38:14 1999  
OST107362 OC19102 (Similar To: L00686) Thu Sep 30 14:38:14 1999  
OST90765 OC17264 (Similar To: AI181055) Thu Sep 30 14:38:14 1999  
OST107568 OC19134 (Similar To: AA086739) Thu Sep 30 14:38:14 1999  
OST107585 OC19138 (Similar To: AI112066) Thu Sep 30 14:38:14 1999  
OST107600 OC19141 (Similar To: AI429194) Thu Sep 30 14:38:14 1999  
OST112455 OC19166 (Similar To: AF003867) Thu Sep 30 14:38:14 1999  
OST107787 OC19171 (Similar To: D17569) Thu Sep 30 14:38:14 1999  
OST107800 OC19174 (Similar To: AA415893) Thu Sep 30 14:38:14 1999  
OST107858 OC19184 (Similar To: U15654) Thu Sep 30 14:38:14 1999  
OST107880 OC19187 (Similar To: AF109719) Thu Sep 30 14:38:14 1999  
OST107934 OC19195 (Similar To: AI505254) Thu Sep 30 14:38:14 1999  
OST107941 OC19196 (Similar To: AJ007909) Thu Sep 30 14:38:14 1999  
OST108051 OC19209 (Similar To: AF013253) Thu Sep 30 14:38:14 1999  
OST108104 OC17051 (Similar To: U34281) Thu Sep 30 14:38:14 1999  
OST108117 OC19217 (Similar To: AA189725) Thu Sep 30 14:38:14 1999  
OST108127 OC19220 (Similar To: AI450342) Thu Sep 30 14:38:14 1999  
OST108173 OC19227 (Similar To: AI105407) Thu Sep 30 14:38:14 1999  
OST108242 OC19233 (Similar To: X96548) Thu Sep 30 14:38:14 1999  
OST108711 OC19235 (Similar To: X75639) Thu Sep 30 14:38:14 1999  
OST63927 OC10092 (Similar To: AA624381) Thu Sep 30 14:38:14 1999  
OST108378 OC19252 (Similar To: AC003060) Thu Sep 30 14:38:14 1999  
OST108487 OC19266 (Similar To: AA285852) Thu Sep 30 14:38:14 1999  
OST51781 OC8569 (Similar To: AU067347) Thu Sep 30 14:38:14 1999  
OST108528 OC19273 (Similar To: AA124579) Thu Sep 30 14:38:14 1999  
OST108582 OC19280 (Similar To: AI449172) Thu Sep 30 14:38:14 1999  
OST108619 OC19284 (Similar To: AV008931) Thu Sep 30 14:38:14 1999  
OST108660 OC19289 (Similar To: AA960383) Thu Sep 30 14:38:14 1999  
OST108670 OC19290 (Similar To: AA254130) Thu Sep 30 14:38:14 1999  
OST108798 OC19307 (Similar To: AI173382) Thu Sep 30 14:38:14 1999  
OST108839 OC19318 (Similar To: AI527902) Thu Sep 30 14:38:14 1999

**FIGURE 2**

OST108852 OC19319 (Similar To: AA107210) Thu Sep 30 14:38:14 1999  
 OST109111 OC19350 (Similar To: AA497714) Thu Sep 30 14:38:14 1999  
 OST109139 OC19355 (Similar To: AA013820) Thu Sep 30 14:38:14 1999  
 OST109202 OC19369 (Similar To: AI509495) Thu Sep 30 14:38:14 1999  
 OST109222 OC19373 (Similar To: AI663991) Thu Sep 30 14:38:14 1999  
 OST109276 OC19384 (Similar To: AE000664) Thu Sep 30 14:38:14 1999  
 OST109359 OC19395 (Similar To: AI385985) Thu Sep 30 14:38:14 1999  
 OST109402 OC19405 (Similar To: AF016913) Thu Sep 30 14:38:14 1999  
 OST109417 OC19407 (Similar To: Z22593) Thu Sep 30 14:38:14 1999  
 OST81392 OC16350 (Similar To: AI037215) Thu Sep 30 14:38:14 1999  
 OST109618 OC19432 (Similar To: D77463) Thu Sep 30 14:38:14 1999  
 OST109671 OC19437 (Similar To: AF020194) Thu Sep 30 14:38:14 1999  
 OST109687 OC19442 (Similar To: AF057525) Thu Sep 30 14:38:14 1999  
 OST109701 OC19444 (Similar To: C80530) Thu Sep 30 14:38:14 1999  
 OST109745 OC10003 (Similar To: AF036007) Thu Sep 30 14:38:14 1999  
 OST109764 OC19455 (Similar To: AA919916) Thu Sep 30 14:38:14 1999  
 OST109799 OC19463 (Similar To: L20334) Thu Sep 30 14:38:14 1999  
 OST109825 OC19469 (Similar To: AI550719) Thu Sep 30 14:38:14 1999  
 OST109845 OC19472 (Similar To: AI019450) Thu Sep 30 14:38:14 1999  
 OST109864 OC19476 (Similar To: AF032968) Thu Sep 30 14:38:14 1999  
 OST110008 OC19499 (Similar To: AA270956) Thu Sep 30 14:38:14 1999  
 OST110020 OC19500 (Similar To: AA270956) Thu Sep 30 14:38:14 1999  
 OST110088 OC19506 (Similar To: AA270956) Thu Sep 30 14:38:14 1999  
 OST110102 OC19508 (Similar To: U41663) Thu Sep 30 14:38:14 1999  
 OST110142 OC19511 (Similar To: AF032920) Thu Sep 30 14:38:14 1999  
 OST110162 OC19514 (Similar To: AF077330) Thu Sep 30 14:38:14 1999  
 OST110175 OC19516 (Similar To: AI530046) Thu Sep 30 14:38:14 1999  
 OST110193 OC19520 (Similar To: AU042130) Thu Sep 30 14:38:14 1999  
 OST110230 OC19522 (Similar To: AA097947) Thu Sep 30 14:38:14 1999  
 OST110263 OC19523 (Similar To: AC002324) Thu Sep 30 14:38:14 1999  
 OST110308 OC19529 (Similar To: AA250378) Thu Sep 30 14:38:14 1999  
 OST110380 OC19537 (Similar To: D50416) Thu Sep 30 14:38:14 1999  
 OST110435 OC19545 (Similar To: X75384) Thu Sep 30 14:38:14 1999  
 OST110509 OC19552 (Similar To: AA544635) Thu Sep 30 14:38:14 1999  
 OST110552 OC19561 (Similar To: AA271370) Thu Sep 30 14:38:14 1999  
 OST110576 OC19567 (Similar To: AU066666) Thu Sep 30 14:38:14 1999  
 OST110611 OC19570 (Similar To: AA762868) Thu Sep 30 14:38:14 1999  
 OST110689 OC19580 (Similar To: AI587764) Thu Sep 30 14:38:14 1999  
 OST110811 OC19598 (Similar To: AJ010350) Thu Sep 30 14:38:14 1999  
 OST110895 OC19610 (Similar To: J05261) Thu Sep 30 14:38:14 1999  
 OST71835 OC7372 (Similar To: AF061270) Thu Sep 30 14:38:14 1999  
 OST110972 OC19619 (Similar To: L20257) Thu Sep 30 14:38:14 1999

**FIGURE 2**  
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OST90943 OC17283 (Similar To: AI049328) Thu Sep 30 14:38:14 1999  
OST110989 OC19624 (Similar To: AI527648) Thu Sep 30 14:38:14 1999  
OST111097 OC19640 (Similar To: X01815) Thu Sep 30 14:38:14 1999  
OST111142 OC19646 (Similar To: D31720) Thu Sep 30 14:38:14 1999  
OST111550 OC19676 (Similar To: AF017128) Thu Sep 30 14:38:14 1999  
OST111652 OC19691 (Similar To: AU020596) Thu Sep 30 14:38:14 1999  
OST111760 OC19711 (Similar To: X72310) Thu Sep 30 14:38:14 1999  
OST111762 OC19712 (Similar To: AA956723) Thu Sep 30 14:38:14 1999  
OST111794 OC19718 (Similar To: AC004407) Thu Sep 30 14:38:14 1999  
OST111803 OC19720 (Similar To: AA261345) Thu Sep 30 14:38:14 1999  
OST111812 OC19723 (Similar To: U46923) Thu Sep 30 14:38:14 1999  
OST111814 OC19724 (Similar To: AA289238) Thu Sep 30 14:38:14 1999  
OST111900 OC19735 (Similar To: AA087828) Thu Sep 30 14:38:14 1999  
OST111899 OC19736 (Similar To: AF109905) Thu Sep 30 14:38:14 1999  
OST111929 OC19740 (Similar To: AF077950) Thu Sep 30 14:38:14 1999  
OST111939 OC19744 (Similar To: AI450126) Thu Sep 30 14:38:14 1999  
OST111953 OC19746 (Similar To: S79780) Thu Sep 30 14:38:14 1999  
OST112078 OC19757 (Similar To: AC002327) Thu Sep 30 14:38:14 1999  
OST112163 OC19771 (Similar To: AA030332) Thu Sep 30 14:38:14 1999  
OST112256 OC12708 (Similar To: AF146793) Thu Sep 30 14:38:14 1999  
OST112342 OC19798 (Similar To: AA691518) Thu Sep 30 14:38:14 1999  
OST65782 OC14351 (Similar To: AI151902) Thu Sep 30 14:38:14 1999  
OST112497 OC19820 (Similar To: M20823) Thu Sep 30 14:38:14 1999  
OST112547 OC19830 (Similar To: AI390140) Thu Sep 30 14:38:14 1999  
OST112559 OC19833 (Similar To: AU041356) Thu Sep 30 14:38:14 1999  
OST112575 OC19834 (Similar To: AF060565) Thu Sep 30 14:38:14 1999  
OST112683 OC19852 (Similar To: AU036018) Thu Sep 30 14:38:14 1999  
OST112709 OC19856 (Similar To: L02844) Thu Sep 30 14:38:14 1999  
OST112751 OC19866 (Similar To: W09776) Thu Sep 30 14:38:14 1999  
OST112799 OC19877 (Similar To: AV042606) Thu Sep 30 14:38:14 1999  
OST112824 OC19881 (Similar To: AI429146) Thu Sep 30 14:38:14 1999  
OST112829 OC19882 (Similar To: AA915350) Thu Sep 30 14:38:14 1999  
OST112849 OC19884 (Similar To: Y00848) Thu Sep 30 14:38:14 1999  
OST98985 OC7103 (Similar To: AF099016) Thu Sep 30 14:38:14 1999  
OST112917 OC19895 (Similar To: AA474553) Thu Sep 30 14:38:14 1999  
OST112984 OC13929 (Similar To: AA139050) Thu Sep 30 14:38:14 1999  
OST112989 OC19902 (Similar To: AA178100) Thu Sep 30 14:38:14 1999  
OST113002 OC19905 (Similar To: AI613716) Thu Sep 30 14:38:14 1999  
OST112788 OC19875 (Similar To: AB003594) Thu Sep 30 14:38:14 1999  
OST112639 OC19842 (Similar To: AF061947) Thu Sep 30 14:38:14 1999  
OST112152 OC19768 (Similar To: AI179057) Thu Sep 30 14:38:14 1999

OST111588 OC19681 (Similar To: AA162465) Thu Sep 30 14:38:14 1999  
OST111553 OC19677 (Similar To: AR018871) Thu Sep 30 14:38:14 1999  
OST111075 OC19636 (Similar To: AI614473) Thu Sep 30 14:38:14 1999  
OST107399 OC19109 (Similar To: AF076183) Thu Sep 30 14:38:14 1999  
OST106871 OC19038 (Similar To: AB015206) Thu Sep 30 14:38:14 1999  
OST106363 OC18970 (Similar To: AV043980) Thu Sep 30 14:38:14 1999  
OST104364 OC18723 (Similar To: AV040390) Thu Sep 30 14:38:14 1999  
OST103187 OC18581 (Similar To: AA065577) Thu Sep 30 14:38:14 1999  
OST102497 OC18447 (Similar To: AA048792) Thu Sep 30 14:38:14 1999  
OST60839 OC8018 (Similar To: AA277014) Thu Sep 30 14:38:14 1999  
OST95955 OC6479 (Similar To: AI179057) Thu Sep 30 14:38:14 1999  
OST82948 OC4295 (Similar To: W61977) Thu Sep 30 14:38:14 1999  
OST107829 OC19179 (Similar To: X83974) Thu Sep 30 14:38:14 1999  
OST106660 OC18994 (Similar To: AF142676) Thu Sep 30 14:38:14 1999  
OST111079 OC19638 (Similar To: AU017122) Thu Sep 30 14:38:14 1999  
OST109199 OC19368 (Similar To: AV033092) Thu Sep 30 14:38:14 1999  
OST105433 OC18869 (Similar To: AI060721) Thu Sep 30 14:38:14 1999  
OST105265 OC18855 (Similar To: AI551992) Thu Sep 30 14:38:14 1999  
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OST41571 OC9717 (Similar To: W89289) Thu Sep 30 14:38:14 1999  
OST77030 OC6255 (Similar To: AA763743) Thu Sep 30 14:38:14 1999

# PATENT APPLICATION

## DECLARATION AND POWER OF ATTORNEY FOR PATENT APPLICATION

ATTORNEY DOCKET NO. LEX-0051-USA

As a below named inventor, I hereby declare that:

My residence/post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

Novel Mutated Mammalian Cells and Animals

the specification of which is attached hereto unless the following box is checked:

☐ was filed on \_\_\_\_\_ as US Application Serial No. or PCT International Application  
Number \_\_\_\_\_ and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understood the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.

### Foreign Application(s) and/or Claim of Foreign Priority

I hereby claim foreign priority benefits under Title 35, United States Code Section 119 of any foreign application(s) for patent or inventor(s) certificate listed below and have also identified below any foreign application for patent or inventor(s) certificate having a filing date before that of the application on which priority is claimed:

COUNTRY	APPLICATION NUMBER	DATE FILED	PRIORITY CLAIMED UNDER 35 U.S.C. 119
			YES: _____ NO: _____
			YES: _____ NO: _____

### Provisional Application

I hereby claim the benefit under Title 35, United States Code Section 119(e) of any United States provisional application(s) listed below:

APPLICATION SERIAL NUMBER	FILING DATE
60/157,651	10/4/1999

### U.S. Priority Claim

I hereby claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

APPLICATION SERIAL NUMBER	FILING DATE	STATUS(patented/pending/abandoned)

### POWER OF ATTORNEY:

As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) listed below to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

**Lance K. Ishimoto, Reg. No. 41866**

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**The Woodlands, TX 77381**

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**Lance K. Ishimoto**  
**(281) 362-6554**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION (continued)**

**ATTORNEY DOCKET NO. LEX-0051-USA**

Full Name of Inventor: Glenn Friedrich Citizenship: Canada

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Post Office Address: Same

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

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Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

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Residence: 163 Bristol Bend Circle, The Woodlands, TX 77382

Post Office Address: Same

Inventor's Signature \_\_\_\_\_ Date \_\_\_\_\_

# SEQUENCE LISTING

<110> Friedrich, Glenn  
Zambrowicz, Brian  
Sands, Arthur T.

<120> Novel Mutated Mammalian Cells and  
Animals

<130> LEX-0051-USA

<150> US 60/157,651

<151> 1999-10-04

<160> 574

<170> FastSEQ for Windows Version 4.0

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<211> 442

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<221> misc\_feature

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cggccccccg	ctgggtgcac	actcgcacgc	acaccctcgc	accatacccc	gcacacncgg	180
gagcacacgc	acaggtantc	agtcacacac	caagggcagc	agcgacggcg	gacnaaacat	240
gctccggtgg	cattgcaacc	ccccacccc	cgccatccaa	ccttgcaatt	cntttgcagt	300
cagaccccaa	accccacacc	ttccccggag	ccccctcca	taaaaaantg	ccttcccccc	360
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<211> 238

<212> DNA

<213> Mus musculus

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aagtgataat	agagaagaca	aagatcctgc	aaaccaaaga	aaacaccaga	atTTTTTcct	180
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<210> 3

<211> 310

<212> DNA

<213> Mus musculus

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acctggactt	caagcctgaa	gaccagcccc	atthttgacat	aaaggacgaa	ttctgatgtc	180
tagctgagaa	gcagccggtt	ctagggagaa	gtgaggggac	aggagttaag	tgccccctcg	240
aacaagcggg	ggaagcctcc	gagtgccctg	cagctgaata	aagcgaatgt	ttaactggga	300
aaaaaaaaaa						310

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cgcgccacac	cgtcgatccg	gaccgccaca	tcgagcgggt	caccgagctg	ctgatgcaga	180
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tcgttaacta	tgtcaaactt	tttattttat	aaaatatagt	ctgctaatat	gtatattggc	300
ataagaattc	ccaacagcat	tttatgactc	cttgggttta	aaacctcagt	attaaattta	360
tcagtgtttg	tggtgcagca	catttaagtt	caacatagtc	cacacatttt	gttggaagaa	420
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gttttgcatt	tttattgtta	gtcctcaaacc	atggaagttt	gaacttaaaa	tgctgaagaa	180
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<210> 6  
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 <212> DNA  
 <213> Mus musculus

<220>  
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tctcnatgct	gctntccagg	acanacgcnn	anaggnagng	agcttttgaa	tcacccccctt	180
ctgtggggga	aaactacnnt	caccaggant	accatggctt	tnccagtncc	agtanaatgg	240
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 <212> DNA  
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ataggtacta	acagtcagg	acaatagcaa	acaccaacca	tgaatcagta	gcagtggcaa	180
gatccagcag	aaacagcaag	actccatcga	atcggcacaa	gtcaacggaa	gacgccagaa	240
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attaccgagc tcctgcaggc atagacacac ctctgaccgc caaagcgctc ttccaggaaa      300
cagttgcacc cgctatcgaa aaagacttta aagaaggac atttgatgct aacaacctgg      360
agaaatccgg tttnaancca cacaggaagg caagctggtc caatatatcc t              411

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<212> DNA
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gaaccactt ctcttctcag ggtctcagaa tggcctagta catatctgga gcctacaaac      180
aagaagaata gttaccactc taaatggcca tggggggccag ggtgtaatct ggctgaagac      240
actgccacag ggacaccagc tcctcaggca gggtcganac ctgcggctgt gcctgnngga      300
cctggaggan ggcaggaaca ccatcatgga ctcanntnag ntggacagtg tgggcttatg      360
caggggctcc atcctgggtc ggggacagca gtgctggatg cttgctgtgc canggaaggg      420
cagcgacgaa gtgccacctg cgttaganat gaanggccaa gaagctgagt gacctncaaa      480
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<210> 10
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<212> DNA
<213> Mus musculus

<400> 10
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ggacagcttg gcctacaggg atcagaggaa tgtatcagag taccaggtta acaaagggtga      180
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<210> 11
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<212> DNA
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<220>
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<223> n = A,T,C or G

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ggcccaggcg	ctcctgggtg	ggttgctgac	cctggacaaa	gactaaacac	tgcaggggat	240
tcatccttga	gagagagagg	atgctgtgcg	cctttgagac	tcaccaaagg	cttgctttat	300
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 <212> DNA  
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ttgaccaaga	gcagacggga	aaaggaaaag	cgctatacaa	actcgtccgc	ggacaatgag	180
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gacgagtata	ctanacaagg	acngaatttt	accctaaggc	agttaggagt	gtgtgaatcc	360
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acactttcaa	gtagaccgag	gttgtggaaa	ctctccctgc	ccgcccaggc	acatgccagg	240
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ggaaggtgcc	attncnaggg	tggncaacct	tntgntatnt	ntgtatgcca	nggagaccgt	240
aagcttctaa	tgctctnngc	taacgccccat	gccctggtgc	antacctgga	ggaacccctc	300
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<211> 280
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gttcttncct ttttgaagan cttaaaancct agganccctt ngctctgtcac accaggcctg      180
gggctggggg acagaaccgg agcacacacc ccctacanct gtcangnggg ggatggaacc      240
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<212> DNA
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angagngctg ataaaagaag tnaagctttg aaaggtcctg caccttgccc atggccatca      180
ctaactgctc cgaatccaca agatgaagac gtcgggctaaa cttgagcaag ctttggttaga      240
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ccacatgcc aactgctctg gagtcgccgg aggcacagc agatcccagc cgagccttga      180
gagaggactg tgatctgcct tacgggtcac ctactcagg actcagcgct cgcacgttgc      240
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gccaaagtgt tcagataatc accacaagta ttacatatt ttcaacagct ctatcttcct 240  
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aaaaaaa 427

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accagctgct tggaataaaag aaggtttgcc actctcctgc cttgccatng ncgtaatcaa 240  
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aa 362

<210> 22

<211> 330  
 <212> DNA  
 <213> Mus musculus

<400> 22  
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 <211> 535  
 <212> DNA  
 <213> Mus musculus

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 agatgatggc atcgggtaat ggtgactacc cgatgcttcc ccaaccgatc gcagcatgag 300  
 agggatccgt ggtatgatgg gaccaccag acctcagggt gacctagggt gaaccgatac 360  
 actgggacct agacatttac gtcaggatca ggagtcgtgt ggacacgtcg cctacacctg 420  
 cttcctgaga tgatgtcatg tgtaaacact gcttcggctt cgtaggctttc atggttttca 480  
 tgttctgggt aagggacatg ttcccttctt aaagcagtac ccttacaata atccg 535

<210> 24  
 <211> 244  
 <212> DNA  
 <213> Mus musculus

<400> 24  
 gcttcgttac gacgatgagg taaagcgggt acgtggctga accagtggag ctggcacaag 60  
 aattccgcaa gtttgacctg aacagcccct gggaggcttt ccctgcctat cgccagcctc 120  
 ctgagagtcct caagctcgaa gctggagaca agaagcctga aaccaagtaa cttcaaaaagc 180  
 atgtagatcc tagaggaaaa ggcctcacct aagggtgtct gttaaataaac tccaatggac 240  
 attc 244

<210> 25  
 <211> 439  
 <212> DNA  
 <213> Mus musculus

<400> 25  
 gagcaccat gttctccaga ctgttggaag acaggcagcc ccaccaccag ctcacacatt 60  
 ctgtgcacaa gtgttcacct gactgtcttc gctgagcaat gaaactgcaa tgacgctcta 120  
 cacttgacc tgaactctgt gtgccttttt gtccaagcac agggctctgt ttacaccagc 180  
 atattcttac ctatgtggag gcacaggat gccaatgctg ctgggtcttat gttgaaacat 240  
 gtaaaggtag tggtttggtt ttcatcttca tttaggaaaa tgtgatctaa agtcagctaa 300  
 tagatccaaa cagcacaat ggacttttct tttcaagatg gacttggatg gtattgtaaa 360  
 tatcatagtc atatgatcag ctccagctga catctgagtg accttctaaa gtcagcctgc 420  
 aggattttcc aagcatgct 439

<210> 26  
 <211> 107  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(107)

<223> n = A,T,C or G

<400> 26

tggggtccat cgccancact gtningaaaca aaaaccaaac cccgaaatgc tnacttattc 60  
atcaagggga gtttgaccaa tgctttgggg gccttcaaaa aaaaaaa 107

<210> 27

<211> 256

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(256)

<223> n = A,T,C or G

<400> 27

gctttagcaa aacaatcaac aatccagtaa gttgctgtat gattggaggc atatgcaggt 60  
atctgtgcaa gggcaacatt cttcagaatg gcaattgtgg agttactagt ctcaactgct 120  
gcaagagaaa atagagaaga agtcaaagat ncagtgaacc naagaaaaca atttgcacct 180  
ccatgaagat gaaccaaaca taaactaaat taaagttcct tgattaaatg caaacgcatg 240  
ttggtaaaaa aaaaaa 256

<210> 28

<211> 135

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(135)

<223> n = A,T,C or G

<400> 28

cagaatggct gatacctgca aaatgaaata ctnagtgtng gacagccctt tngggaanat 60  
ggagctgtct ggctgtgagc gaggnctgca tgggatacgg ntgctcactg ggaanacccc 120  
aaacactgac tccgc 135

<210> 29

<211> 186

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(186)

<223> n = A,T,C or G

<400> 29

acgtcagttc acaatgccag ncctggaant gagttactgc anaggaaaaa accacacata 60  
gcctatgaga gcagtggagg ggtggagaga anaggtggat gtccccctta cttcnaacat 120  
gcttttgaca cacaccaact tnnngngnttn gatctggtgc aaattaaaag accaatgtga 180  
gatatg 186

<210> 30

<211> 335

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(335)

<223> n = A,T,C or G

<400> 30  
gacatagtct gtggtgagtt ggaagaaggt gaactggaag acgacggggc tgaggaggtc 60  
caggaccccc ctggaggaca agagaggagt cgggaaggaga agggggagaa gcaccacagc 120  
gactctgagg aggagaagtc tcaccggagg ctgaancgga agcgggaagaa ggagcgggag 180  
aaggaaaaga ggcgctcgaa aaaaaggcgg aaatctaagc ncaaacgcnn tgcttcctcc 240  
agcgatgact tctcgngact tctcanatga ctcanatttc anccccagtg agaanagtcc 300  
cgcaagtacc gggactntag tcccccatat gcacc 335

<210> 31  
<211> 144  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(144)  
<223> n = A,T,C or G

<400> 31  
tcttgaagcc cagaacatga tnaaggggtt ttcgggctcc ttgaatataa ctctacaatc 60  
gagcttcatg gtgcaaggca cgagtgatcg ggtntcgtcc anaagggtga acctaataa 120  
gtaaatnccc ttgtgcccat tacg 144

<210> 32  
<211> 138  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(138)  
<223> n = A,T,C or G

<400> 32  
ttaaatagaga gactcacnga nctgcacttt ccgcaaaagn ccnaatgng ggccccgtac 60  
cctctgtacc cagcgganat agnggcctgc tcttntcctt cctgccgctt tcacctaccc 120  
ngcttcaactg gatgccca 138

<210> 33  
<211> 480  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(480)  
<223> n = A,T,C or G

<400> 33  
gactgagctt agggcngtct aagaataatg ctatnataaa cagccgacct tantgcaaag 60  
atattggcgt ttccaagaca acaagataca agatatatgc tttggagncc taggagaatc 120  
ttggattcaa agacctgtan nggncagga ctacagtga ggtcaagagn ttgcagcaag 180  
angactcatt natagaagga gtgancgacc aangccttgt ggctgtggtg ntcagcttgn 240  
cgntgaccgn tactntcctg tatgcacttn tcagaaatgt ncnnctgaa catncatcca 300  
taaaaccang agctaggcng agtgcttcna gaacaatncc naacagaaca ggatgtgnct 360  
gtccttgccc gacagcagta tctacactga aatgnnctgt ccaatctgct tacatcaagc 420  
ctcctttcct ngttgaaaca aactgtggac atctcttttg tgggtctgct aattgcatac 480

<210> 34  
<211> 219  
<212> DNA  
<213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(219)  
 <223> n = A,T,C or G

<400> 34  
 tcactaccgc gtgttccaca ccattagtca nngagggctc actctaggac acaagctanc 60  
 ctaggactgc tngaggnccc tncagcaaga cgannnggtgc ttngnganaat tttntcccca 120  
 tgtgnggntg aatangctgg aannncactt ttatcaccat ctgacccatt aggaccttgn 180  
 naacatagaa ttaaaagcga ntaatctgga aatctcaca 219

<210> 35  
 <211> 152  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(152)  
 <223> n = A,T,C or G

<400> 35  
 cttatatatt gatgccaaaa taggancatg gtgngncnga cnnnaaggg canctctgga 60  
 ggcaaccctt atgccaatgcg ttggaaacan caccgngcc tctggnaaga anccgggnag 120  
 aggaaccatg gangaggatc ctatggatgt ct 152

<210> 36  
 <211> 201  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(201)  
 <223> n = A,T,C or G

<400> 36  
 actgagggaa ctgcagcaac aaggaatgcc tggtcctgca cttgaagcca gttctcaagc 60  
 tccaggactg cccgtggtat aaccaaggg tctgcaagga aggtccccctg tgtaaatacc 120  
 gccatgttca tcaagtactg tgtnccaact acttcaccgg cttctgcccc gagggacctc 180  
 agtgccaatt tgggcaccat a 201

<210> 37  
 <211> 219  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(219)  
 <223> n = A,T,C or G

<400> 37  
 gggggcggaa agcgaaaacc actccaggnt ntnnctttgc tttgcgtton ctggatccac 60  
 ccccacgcct ggtaaggnc aagcaaccat ggcaggnaact agagggagag taaggctata 120  
 gaagccaatg gagggagggg actcatggaa agntggccca aacccaacct gacccacac 180  
 tggcaccttg ctagcccaat aataaacatt ttgctgatc 219

<210> 38  
 <211> 289  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(289)  
 <223> n = A,T,C or G

<400> 38  
 gaggactttg gaaatcctaa atggccnagc tactgcaatc tccacccagg ttccttcctg 60  
 aggagtggta tattgctaac aaaagccagt accanagagc aagaggncctc ataaggtccc 120  
 tgnnnctaga acgcttggtt ggcannagag ccagaaggct tngtngngaa gaaattgaga 180  
 agaccaccag gaagtctnag tagcgacgtg aacaangaaa ctttgngnca gagactntga 240  
 gngaggggtca agngttctcg ggaagnaagc nnttacaatg acaaaactt 289

<210> 39  
 <211> 138  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(138)  
 <223> n = A,T,C or G

<400> 39  
 gccataatta cttcttggtg aactctcnga ggtcggacng gagangtgac atggntcctt 60  
 anattnacat gtgcttacgg agaaacnggn ggtgcgtctg aanagcccag aacacagtct 120  
 cggagagtct ggcccccg 138

<210> 40  
 <211> 129  
 <212> DNA  
 <213> Mus musculus

<400> 40  
 taagcctggg tggcaacctt caggtggcac tggaaactac ctggttcctg gacatgcccc 60  
 gtagaaggcg ggggtcccag cggcagcagc taaggtaagg gatattaaat gtatccataa 120  
 acaaaaaaaa 129

<210> 41  
 <211> 223  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(223)  
 <223> n = A,T,C or G

<400> 41  
 actgaggtaa cattcaggaa tcctgggntg atgatacatc agccttcggt tctctcagcc 60  
 agccagaaca agtacaaatt ggtagtgctc ctgacatat gttttgtttg ttaatgaggt 120  
 gggggtggtc acctttatga cagctgtggt ttcaggcagc tagctggctc acttagcatt 180  
 tctgcttggt ttatTTTTtag cttgctagtt aaataaagaa aaa 223

<210> 42  
 <211> 482  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(482)  
 <223> n = A,T,C or G

<400> 42  
gactgaggggt tttgcggcct ccaggtggtg ggtccaatth ttcatlaggc tttgatgagc 60  
cagcagaaca gcctgtgagg aagaacaaga tggctttctaa catctttggg acaccggaag 120  
agaaccccc atcttggggc aagtcagcag gttccaagtc tagtggtggc agggaaagatt 180  
cggagtcgcc tggaacacag agaagtaact cttctgaagc aagctctgga gatttcttag 240  
acctcaaggg agaaggtgat atgcatgaaa atgtggacac agacttccaa gccaacctgg 300  
cgcagatgga ggagaagcca gtgcccgtg ctcctgtgcc cagcccagtg gcttcagccc 360  
cagtgccatn caggagaaac cccctggcg gcaagtccag cctgggtcttg ggtagcttc 420  
ttgngttgga actctgncct tttgncctgnc tggttggtgg cccatgcttg ggaactgcac 480  
ag 482

<210> 43  
<211> 379  
<212> DNA  
<213> Mus musculus

<400> 43  
ctgagttaca ggatgttaga tccggtacag aagagaatga ggaaaagcta cttatcagag 60  
gaaagatcac cgatcactgg acaaatcgta accaggctct ggacctgcaa cattccaacc 120  
tctccacaca gcgcgggtggc tctgattggc cttcaacct ttacaaacac agctgctttc 180  
taggaatgcc ctcccacact agcaattcca tcgccctacg agctaagatc tggcatcttc 240  
gagtgccatg caagcagaga ttcaaagtca atgtctcaaa actaaatcac tttttcttta 300  
tcttgagaca cacattcttt ttctttgtt tgacaataaa ttaggatgct ttgttttttg 360  
gctttttcaa aaaaaaaaa 379

<210> 44  
<211> 487  
<212> DNA  
<213> Mus musculus

<400> 44  
gactgagcat gaccctgcct ctctttaccc gccatgatgg atcagccagc tcagtaagcc 60  
tgctcacacc tctttgtcct gacctggaag gaaagaaaga ctcgatgagc atgaggatca 120  
gcacaccgtc tgccctcagct cctcccgcct cccgctgtgt ttctccatct ctgaggcatg 180  
gcatgctccc atccatcccc actgcgggaa tgaaccacg tgcagcagct cttcaccccg 240  
gggagtcgc atcgccacg tctttctagc tgtttaaaag tcaactagcc acaatctgga 300  
gtgccttggg aagagagccc caactgacat tgcctaggtc aggtggtct atgggtgtgt 360  
ctgtgagggg ctgactgttg atccatattg gaagaccag accaccattc cctgggcagg 420  
tgaccctgga ctatgtaagt gaagaaaact tgctgaacat aggtggtgtaag caagcagtg 480  
ctccaca 487

<210> 45  
<211> 458  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(458)  
<223> n = A,T,C or G

<400> 45  
ccgtaccgga agcatgaagc cagaggngcc atgcagaggn ccctgctgaa gctccaagct 60  
cactgagctg ttagagcgcc tgcanagaga cagggangat ntgggttttt ttggaaacct 120  
tatntttcca ctctttttag cagnatcan gctgatacct tgnacagatct tctgcctgcn 180  
caagtgtctg cagccgtgtg actgnntgta cncaaactag gacctgncca gacgncagtg 240  
angatnagtn nnntgnactt gctgccttng cctgancaan gctatnacac tgaggctggt 300  
cactctgaag gccttcaagc tgagccgcat tcaactggga gcagcttcta cgggtgtaang 360  
ataggatnat ctgctccacg cacggggtca ttgcaggnga agcacttggt gcaggnggcg 420  
aaatccacta tactggtnga caaatgtgat ctaactac 458

<210> 46  
<211> 174



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<212> DNA
<213> Mus musculus

<400> 46
gagcagcacc tggaatgcat agagaaccag gttccctttg gaaaatattc actcgtttcc      60
accagcccaa acccgaaggt accatcagta cgtgaggcct acaacagggt tctctgtttt      120
cctgtagcca gcctctctga tgctoccaac aatgtatttg aaaagcacct tgat          174

<210> 47
<211> 196
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(196)
<223> n = A,T,C or G

<400> 47
gactgagaaa aattttaagt gcctccttat gccaaaggaag ggccagggtt tggtatgactt      60
caactaacag tagagattgc tgtcctaggg actaagnnta cacacatgaa taaangacgg      120
aaattccagt taaaaggnaa aggagnncgt ggggcctant cncnnggtc angncncaag      180
gactaagtat cgacgc          196

<210> 48
<211> 548
<212> DNA
<213> Mus musculus

<400> 48
gactgaggta ttgtccaggg ctttctcaca gctcctaaag acggacctca gacgtgcac      60
acgtggacct ctgaaaaaac catggagctc attgctccaa agccaactgg agagcttctc      120
ccaatcctgc tgctgctgct gttacagctg cttacaacag ccattgtcgt ggctagagtc      180
ttatatccac tgtgacacca taggagaaat gattccactt ttgctgtctt acatgacct      240
ataaaaggag gcacatccca ttatactctc aaaccctgtc tgcactcagg gagaggttat      300
aacctcatta aggatctttg gagccatttt ttaggtcttg gcaaccatgg ttcttgaatg      360
ggtaactgct ggcagaacat gaaatccttc ctaaactgat tgtccacttt tttctttgac      420
attctcttga gaacagccac tagtttctca gtgtgcttag caaatatgaa tttacaatat      480
aatcaatat ggacattcat gtttcacaga cttcaaaatt acatctatga gcataattttg      540
gcacatag          548

<210> 49
<211> 208
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(208)
<223> n = A,T,C or G

<400> 49
tcagctggca tcaatcagga tcccatccct gagaggactg catcaactct tttggaaact      60
gtcttcccaac cttgatgccc tgcgctgtgc agcttctgaa aatgacanac agggaaacgg      120
caccctggcc atgganantg naangctngg ataactagan gattttcttg gaacagatan      180
gncctttccc tagtgccata gaaaacaa          208

<210> 50
<211> 104
<212> DNA
<213> Mus musculus

<400> 50

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gcacacgcc	ttcacgctgc	tcaagggcag	gtcggcacca	gtatcagggg	cttcggcacc	60
tgcaggaatg	tcaaattaaa	catctgttaa	tagtaaaaaa	aaaa		104

<210> 51  
 <211> 239  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(239)  
 <223> n = A,T,C or G

<400> 51						
ctagacgatc	actctnncna	gagtgactct	cgncgaaaac	ngacagaaat	ggctncngga	60
tgagatggac	tctgactggc	gaancacctt	tgagcttgtg	acctagcagc	tggggccagt	120
gagaggngac	tnaaacnctc	ntgcctcagg	ntcttanaac	agnagtggcn	attgangctn	180
acanaataac	atgcctnttg	ggcaaggatg	atnggncctc	tggtaatgt	tcaatctag	239

<210> 52  
 <211> 539  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(539)  
 <223> n = A,T,C or G

<400> 52						
tgaggtagaa	gccctcattc	ttcatctacc	cttttttcag	tatctggcac	caattctggc	60
cccacatatt	gtggcccatg	gctcttgtgg	tatgccgaag	atttacaggc	agtttctgtg	120
gaacatttcc	ctgtccacct	ctaataaagc	cccgtcaaac	aagaacatgt	gattttgctc	180
tgactgcaa	gaagatcagc	acagactcca	gaatgtcagc	cgctctcaag	ctattagaac	240
ctttaaagta	caaagcacct	tgtaatcctg	cttaccgtgc	agcccaaagc	gtggcccat	300
ggcacatggg	aaacatcacg	ccacacgggg	gacagacgct	ccctgaatgt	aatagctcct	360
gccatcttgc	cagaaaagtg	aagaacgttg	gtgggtaccac	ccttcctcgg	agaaccttca	420
cagccagcag	tgcccacctg	ggtttgagtg	tcaacaaagc	ttctaccctt	aatgccagca	480
cactgcatnc	agactcatcc	agtgcctggag	gagggtgaaga	ggatgtagag	ggctttgat	539

<210> 53  
 <211> 181  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(181)  
 <223> n = A,T,C or G

<400> 53						
actgaggtct	ttggatgcag	cccagggncg	caccaaataca	tgaagatctg	ccttaattcta	60
ctgcgtcagt	gctcggacta	aaagactgtg	ccaacacacn	annctatcat	gaaacttttt	120
ttgtcngng	acaggatctn	gatagaacag	gctggccctc	aactgggttg	gctagtagag	180
g						181

<210> 54  
 <211> 203  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature

<222> (1)...(203)  
 <223> n = A,T,C or G

<400> 54  
 cctatgtgag aagctcngag ggtgangcac cgtttcgaac tctgcagtgt gcaatgaaga 60  
 cgaggaagtt ccagcatggc ctcgggggat gttggctaag ggacagagcc cgaaagagtc 120  
 cttcacagag accacatatt tatctccctg gatgctttat aggccttaat aaaaaaatat 180  
 caaaatagtc tataaaaaaa aaa 203

<210> 55  
 <211> 238  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(238)  
 <223> n = A,T,C or G

<400> 55  
 tgccctccatc acttgcaaag aaattgttcc catgggtgnta cttgncattc tatttcccaa 60  
 ttactctacc gccctcctac ttggcatgtg nttgccagn tcacaggaga tggactatatt 120  
 attaaaantc ctgaatcaga gaaataggga tctcaccagc ttgntgccag gaggaaggga 180  
 ancatgtctc accanaacac agctacatcg cctaantcag gatgaaaact ttatttta 238

<210> 56  
 <211> 133  
 <212> DNA  
 <213> Mus musculus

<400> 56  
 ggaggctgat ttttctttgc actggacacc accctgttag ttcctttggg caatggggaa 60  
 gtccctgtctg cgggctggat cttctaaaag caaaagtatt aaatgttta gagttttcct 120  
 ttaaaaaaaaa aaa 133

<210> 57  
 <211> 292  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(292)  
 <223> n = A,T,C or G

<400> 57  
 ggccatggct gggcttgnac ttccctcctgc agtccgggan gatcctcttn cctcagccct 60  
 caaggnagct gngacgatag gccngaccta ccatgccagc ctgattcccg tgaaactttg 120  
 ngaacciaan acttntgctc tnataangag cttaacantt cttntctgtnc aaancttggg 180  
 ctanaaatgg ngtngtgggt gangactatg ncaaagaatc tcaggcccna ggatgtcatc 240  
 gaggaatact tcaagtgcaa gaaataaata aatttttggt gaaaaaaaa aa 292

<210> 58  
 <211> 496  
 <212> DNA  
 <213> Mus musculus

<400> 58  
 ctgagcccca cccagacaa ctccctcatg ggcttcgtgt ccgaggagct caatgagacc 60  
 gagaagcagc tcatcaaaga tggcaaggcc agcaacatgg cgggtggtgta cggcaaggag 120  
 gcgagtatct ggaaggtgag cccagcaag cccactgcca accacaccgg ctccaatgcg 180  
 ggccataccc acaacacttg ctgagtgtgt gtcacaccca cgccagtacc agacacattc 240  
 actgtacctt ctgtgccttc acaaggacag gccacagccc cttctgacac aagccgtgtc 300

cacgcgactg	ccaccaccac	ccaagcatag	gccacagcca	cacagatcat	ctgcatgcca	360
gcgctggaca	cgcctaccgc	acctggttct	ggtgctgata	acccccataa	ccaggaaggc	420
tccagccaca	caatgacagg	gcttacctag	ccaaggccat	gcctctgcag	tccatgcctg	480
aagctgcagg	cacagg					496

<210> 59  
 <211> 172  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(172)  
 <223> n = A,T,C or G

<400> 59						
gactgaggtg	ggtttggnt	gagtatacct	gngcaggagc	cataattact	tcttgtggaa	60
ctctcaaang	ccaggacagg	nggcctgggc	ttggctccat	ancncnatgg	cactnnaagg	120
tcacnacttt	ggctcgngaa	ttcccnagtg	atggggaata	tattttaaaaa	aa	172

<210> 60  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(162)  
 <223> n = A,T,C or G

<400> 60						
gactgagtc	cagaaatcct	ggntaggagg	gcactttgac	caaggaggga	gtgtgtatat	60
attataccaa	gctccaaaga	ccctcacaga	tgtcttccag	gatgtcagat	ttgtcagcaa	120
cttgtcagat	gtttctgtgg	tcgtttggtc	aagaaaaaaaa	aa		162

<210> 61  
 <211> 163  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(163)  
 <223> n = A,T,C or G

<400> 61						
gcaccaaact	tgagacgagg	gattgttct	ggcctctagc	cctcctcaca	cccagtttta	60
tttattgggt	tggctcttgc	tctgagaggt	ctaattctct	ctcaattctt	cctaaactgg	120
gctgcatgct	gnctgagcac	aggaaagata	gcaggaatgg	aag		163

<210> 62  
 <211> 189  
 <212> DNA  
 <213> Mus musculus

<400> 62						
tgaggacccc	cacggcacga	gtattctgtg	gccagggcca	ccgcctcacc	ctcctctgca	60
gtctctgtca	cataggcatc	catggagggg	ctgtccaagg	cttctacata	actccagaat	120
tggaagatgg	tgaactgctc	ccccgggcct	ggttggggcc	tcctgggcag	cttctgtaag	180
aaaaaaaa						189

<210> 63  
 <211> 124

<212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(124)  
 <223> n = A,T,C or G  
  
 <400> 63  
 agtttgacaa ccaaaatgag nacagacttt accnatatac atcgaggatg aagagacttg 60  
 ctcccagtag agaaccactg gtcttgntct ttaagagtct gttctgactt tcctaggacc 120  
 actt 124  
  
 <210> 64  
 <211> 229  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(229)  
 <223> n = A,T,C or G  
  
 <400> 64  
 tgagggtgggg tctttcaagt gcaaggcctg gtgtgtacaa caggatctct tagaaagaag 60  
 cacagctggtt ttcttgcagt ngcgggccccg gaaccacacg accggcagct ccagccccag 120  
 accacagctc gctggatttt cagaagttcc ttggggccaga agtgccagcc agatcactct 180  
 ttctctcagg tcacatatgg tacataaatc actttgcaaa agaaaaaaaa 229  
  
 <210> 65  
 <211> 190  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(190)  
 <223> n = A,T,C or G  
  
 <400> 65  
 ataagcagat cctgggtgatg tgtgntcatt actgagagat tcctctccca cccacacaaa 60  
 ctgtatntac aggggtgggga cctgctggnc acaggcatgc caatactgtc tgaagactng 120  
 tatttgcatg anaccnttga cactgatcac ctctcanctc aggcctgact ccaaccacag 180  
 ggaggagatg 190  
  
 <210> 66  
 <211> 331  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(331)  
 <223> n = A,T,C or G  
  
 <400> 66  
 gactgagact tggagcaaga cttctttaca gcccacact gaggttccca ggtacgagnc 60  
 acaaggaagc catgtgattn ctgngtcgcc cagaggctct gcagcccctg cccctcctct 120  
 ccaccgagct cccttcacag gattgcacct ctgccagcca ggaggctgga gtgtagatgc 180  
 tctatgaggt ggctgtgcc aagagccac gccaaaggcca tcttgagac tgaaaggagn 240  
 nngnttgcc cacactctat ccctgcccac gcacctttgg ccatgaactc cgtgacaata 300  
 aagatgggct cctgagagac caaaaaaaaa a 331

<210> 67  
 <211> 239  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(239)  
 <223> n = A,T,C or G

<400> 67  
 gttccataat gggagtgggtg agcngggccc ccctactgtc accccgagga gcagtataca 60  
 ctccggggcaa cggccctgcg gtccgtcatc atctttgctg gcttccagac agctccgatt 120  
 cagacgtgga ggaagtgacc atggaagana nccccgtcat ctcccgacct ccccagacga 180  
 atctggcaaaa cctacgcagg ggctggtttag cctccccagg acccgggatc agtcaagaa 239

<210> 68  
 <211> 112  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(112)  
 <223> n = A,T,C or G

<400> 68  
 aactgagaga ccctgggaga aggtcaacaa caagaatgan ttgagtnntt gnnnaatacc 60  
 cnnccagggnn gtgttacaca cttnaagggc gtgggtcttg tgcttctcac tg 112

<210> 69  
 <211> 113  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(113)  
 <223> n = A,T,C or G

<400> 69  
 agttaataag ggggngctg gcggacaccc tcagcctgac ngtgcatgga tcccgacttt 60  
 gtcagatgga ctttinaagac ctatttcaat gaaatggttg agaataaaaa aaa 113

<210> 70  
 <211> 617  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(617)  
 <223> n = A,T,C or G

<400> 70  
 ctccctggac acctcaagga agatggttct tcatctagaa ggccctccat caatagccag 60  
 gtagcctgag ctacatgaca agatcccagc tcaagacaaa cagacctcat atctagtcac 120  
 cataattatt gtttatttag acttgctccc tcctccctct gatttcccag gagcctgtgg 180  
 gtatcctcag tctctgagaa aataacagcc agcatctggt acaggggctc tcggtgcttc 240  
 tccagtgagg caggaacaga taaatgagaa aaggaaggaa tcaggttgaa ggcttccgct 300  
 gccatcttgg atgaagaggg atccagaatc cagcctggag gtcattgtgat gctctcgaca 360  
 tttccaaagt gcctcttgtt gcttctcacc acaaccaaga gatgcacaag gaaaggaagc 420  
 ccataccctg tagtttgcaa gccccagtg tgccggggagg gacctgctca aggtcagaga 480

ggagcagaga	ggctggaaag	ccctgactcc	ctgggctaag	cctgggttca	ttctacttnc	540
ttcaccagct	tcgagtgcc	ctggaaacac	ctggcacgac	aatcgggaaa	taaaagaact	600
ncatggctta	aaaaaaa					617

<210> 71  
 <211> 182  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(182)  
 <223> n = A,T,C or G

<400> 71						
gactgaggtg	ggtttgggct	gaggnaaacc	tggncagcag	ncataannac	ttcttgagga	60
actctcaaag	gncgnacnnn	aggcaggnan	ctactgctgc	tcaccnttg	agagacttac	120
ccggtgcttg	cctgaactgc	aataaaggac	tcatattatt	gagcaggact	taaaaaaaaa	180
aa						182

<210> 72  
 <211> 221  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(221)  
 <223> n = A,T,C or G

<400> 72						
actgaggccc	aaggaagcct	ctcctctcct	gtttccagng	tgatcaatca	ccaatacaaa	60
ggagttcatg	tgacagctgg	gccacttita	atatgaagca	cttattgaat	tatanannaa	120
acatnccgtt	ctgnntgctc	agcgtccagg	acccccgagg	gaaggcacca	tctccacaga	180
aggnccaaca	tctttgtaga	agaaaagcca	actggggaca	g		221

<210> 73  
 <211> 126  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(126)  
 <223> n = A,T,C or G

<400> 73						
tggccttgaa	tttacagaga	tccacctgcc	tccttctcta	gagtgtctggg	attgaagcac	60
cactctgggt	aattacttct	ttgtaaataa	actngcacia	acgtcaccac	cacacacaaa	120
aaaaaa						126

<210> 74  
 <211> 190  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(190)  
 <223> n = A,T,C or G

<400> 74						
ggtgagaaga	ggagtttgaa	gtgtttactc	tggactatga	actgtgttgn	actgggatct	60

aggattcaag	tgctaaatgc	acagtccatc	cttgctttct	ttggatattt	tgctcaagna	120
tgatatgtgt	gggtttgagn	acttatattg	tagagtatgt	caaataaata	ttgatttacc	180
aaaaaaaaaa						190

<210> 75  
 <211> 192  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(192)  
 <223> n = A,T,C or G

<400> 75						
agactgagtc	ctggtacctg	ntgtngccgn	gttgcccttc	ctccctnctt	ntcanngggg	60
gantcccagg	gngaccgnnc	cagcctgcat	ttttggtgga	aaattagatg	gagtgagaag	120
ccccctgcgg	actcccagct	ggatggaaaa	gacaggagga	gaaaaggaca	aagacaaaca	180
ggaaaaaaaa	aa					192

<210> 76  
 <211> 107  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(107)  
 <223> n = A,T,C or G

<400> 76						
cccattatgg	gctccactat	gttggncgac	acctctgnct	cctgcaggag	atatcgggng	60
nggcccnag	cctctgtcnt	taaactacct	catgctttta	acatcaa		107

<210> 77  
 <211> 401  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(401)  
 <223> n = A,T,C or G

<400> 77						
gactgaggct	tgactcccc	gggggntctg	cctctgcntc	tcttgccctc	gctgttgttt	60
ccctctctgt	ccagctcccc	tcccgnctct	gccctggaga	atggctcaaa	aggagaacgc	120
ctaccctgtg	ccctacggct	caaagacggg	aaggctcctg	ccacattccc	cgccccacgt	180
cccccggaag	aagagtccat	gaagatagag	gctggccttg	caaattggccg	gactctaagc	240
gtntncgacg	tgtgggcctc	aagaatttgc	ttgcaaaact	cagtctgatc	acttgacgtc	300
ttaccgtagc	agatgttgcc	aacctgaatc	tgagggcttc	cgtagagctg	agcctgctcg	360
tcacgtacaa	taatagttgg	gactgagcaa	acatcataaa	a		401

<210> 78  
 <211> 127  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(127)  
 <223> n = A,T,C or G



<400> 78  
agaagaacaa cgtaananaa tgantgcttc tctggtaaaa cannggggag ggggntatta 60  
accttcnagg atnctgtttt tcgcacttct catcannaag aatgggaatg tctcaatfff 120  
gctcaga 127

<210> 79  
<211> 145  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(145)  
<223> n = A,T,C or G

<400> 79  
ctgagtgtga tccctgggac ccacatgatg gaanagaana gagcaacctc ccataaactg 60  
ncctctgact tctacaccaa ngctgtatgt agcatgtnc cacaacacctt catgcgcata 120  
cacaacgaaa ataaaaagca aaaga 145

<210> 80  
<211> 110  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(110)  
<223> n = A,T,C or G

<400> 80  
ggattctagg gaatgacana atttcctgga ngatgaatgg agggnggnna tgntaccctg 60  
tgcctgacgn aggcantaac cgtgncagat ngtgacaatt tagaaaatat 110

<210> 81  
<211> 322  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(322)  
<223> n = A,T,C or G

<400> 81  
tgtaaaggga aataagggac ggcctgaaca gacttcctgc tncnctgttt ggggnngggg 60  
gngatggcca cagttaacaa aggcaaacca caactaagga aaaagggtaca tccagcantg 120  
gctaattcca caacnaaagt catatcggaa gaaaagatgg ngtcgtttct ttactttnaa 180  
nataacccag aggtcatant aaacaatang nggggagatc gaaaggctct gctatcacag 240  
gntccagtgg caaaagggnag tgtgcagact tggggggcca naattgcatn ncaacgcaag 300  
cagcattgca tgattttggc ac 322

<210> 82  
<211> 108  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(108)  
<223> n = A,T,C or G

<400> 82

gactgagcct	gcctggatgg	cagtgagcct	cagttcgttt	aggtcgtctc	tacctgttca	60
gcttcagtga	gcacaacacg	ggtaaacctn	tgcttgagct	cgagtcct		108

<210> 83  
 <211> 277  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 83						
actgaggtgt	gacgaagaac	agtctctgta	catgaagacg	aagacgactg	ctctgggctc	60
aggtatatct	naaccttggn	tctgatctgn	gagaaaaaga	gaccacctgg	atctggcatc	120
ccggnntttg	aatccaaaca	tcctctctct	gaggntnttt	ctcctnaggg	aagnttcccg	180
ctngncagct	tnganatcct	canaagagag	ccttgnattg	gaaacgtctc	cgttaaangc	240
gataacatgc	ccttcgntat	tcaccacaaa	aaaaaaa			277

<210> 84  
 <211> 133  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(133)  
 <223> n = A,T,C or G

<400> 84						
actgagaaag	ctgttttttt	taattttgat	tttctcaaga	cataaagtga	aggctgcttt	60
tcatctgtct	gcactatcgg	nntggngnn	ncganngcca	aactaaccgt	atataaccct	120
aggaaacttt	taa					133

<210> 85  
 <211> 332  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(332)  
 <223> n = A,T,C or G

<400> 85						
gggccttgga	gcctagaatg	acagcaaagt	aaaaccagtc	tcaactcctg	aaggctctcg	60
nnctgcacca	ggaatgcgtc	catagccaga	tcctgcaggg	gagacctgac	aagatgagag	120
acagcacaga	cttggaagcc	ccgcctcctc	tgtggatctg	aaggctcctc	tgtagaaaag	180
acaggacctg	gggcctgaga	ggcgaggccg	ctcaacaaca	gaacagctca	tgatgaagct	240
gagtctggcc	tcgaactcgt	ggacttgtag	ccctgagcaa	ccatgcctgg	cttggcttta	300
ctgttaaaaa	tacttctctg	taaaaaaaaa	aa			332

<210> 86  
 <211> 327  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(327)  
 <223> n = A,T,C or G

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<400> 86  
actgagggca gcatcgagc cggcccaang gcaggggagc gcggggcaag ctcacttggg 60  
tcctggaaaag gccaaaggcg ctcagaagcc caccgcccag gacttgogac aagctgggag 120  
gcggccgaag acagtccttg ngagagatgc ccagnatccg gcggggcttg cttcgagat 180  
gcccgggtgcc canccagget gtccgctgag atgcccgtgc ggctgcttga tcggctcgga 240  
gcagcttccc ccaggaatga ctccagccgt ctgggaagca aggagggaca gggtttggag 300  
caataaatgt ccccaaggcc cgaaaaa 327

<210> 87  
<211> 182  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(182)  
<223> n = A,T,C or G

<400> 87  
accgaggact tcagggccct gnanaagact gttgaggaca tnaanntatt ctaanccacc 60  
ctcctgntct tctttctcct nctgtcccnc atnatncca tggaaagcct tgccctggact 120  
attctntcat gcttnggaac tntctggatt tctacnctca nanacatgct ttgtactggc 180  
ta 182

<210> 88  
<211> 198  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(198)  
<223> n = A,T,C or G

<400> 88  
agatctcata cacagttgcc aaactgaatg ctgccatttc agaacgtgaa gaggntanag 60  
ggagannnga nctgnttnat cctgttanng tagactgnaa gctatggcaa aagagcnanc 120  
acaagagctg acaccagatg tnnacaangc ccatgagttc tcnacctgan gctngatact 180  
tcctaattag acgacaga 198

<210> 89  
<211> 409  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(409)  
<223> n = A,T,C or G

<400> 89  
gggattctag acctggatga catcctnngg gacggngctg atgacaaaga cagactggta 60  
gcagtatttg atgaacagga tccccaccat ggaggagatg gtaccagcgc cagctccacg 120  
ggaaccacaga gtccagagat attctggcag tgagctgggc accaacaata gtttctgctt 180  
ttcagcctta tcaagccaca agtgaaattg aggtcacgcc tttagttctt cgggcaaata 240  
tgccctcttga tgnccngccg gagcancgac ccagctttaa ctggccttn cacttctgtc 300  
agtgatanca actnttcta agaggagncc tccaggaaaa accncgaccc gntgggtccac 360  
gacagctngn tttctcaagc aaacaccngc tgggaagtcc caaatcctg 409

<210> 90  
<211> 103  
<212> DNA  
<213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(103)
<223> n = A,T,C or G

<400> 90
tgctaaatcc cacacagtaa taaatccggg acctcctgan acagntgnen cangagcnen      60
nggctttatt nttgaagcac cttccacccc caacttcctt gac                          103

<210> 91
<211> 104
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(104)
<223> n = A,T,C or G

<400> 91
cctcatgcta atgtaatgca cggcncnnac cctgaccag tgactactgg tgggccatag      60
cnngtcacg ntgaagccct gcacaccctt gacctgagct ggat                          104

<210> 92
<211> 239
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(239)
<223> n = A,T,C or G

<400> 92
cagaagacat cccaccacat ggnccctgtg tttgtcctga tgagcgctg cctggccacc      60
gcaggtaatg caccttctca attgggaggg tcttaacctt ctcttgaatt cctatttcct      120
tctccctca gtctctttgg ctaaaaatat ttagtcata ttatcttatg taaaatgtga      180
atatttatgt tatttaggta aataaaatat ttgactatca tactgataca taaaaaat      239

<210> 93
<211> 322
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(322)
<223> n = A,T,C or G

<400> 93
gagtgtctggg acttgaaccc agatctcagt gtctactaca ttctcaaccc tgcttctcca      60
aagacagcgt ctcanctata ctctgtagcc atgggtcagcc tgggaactccc aagagatctg      120
cctccggagt gctgggatta aagatttcta ccactacacc gtggccttac aaacggaggg      180
gataggacat catttaattc ctgaagagtt cctcagacaa tcagttctta ggccatccac      240
aaactgatca cttggtttgt tgctctcctg aatgtggctt aatgaaatta aatgtagttt      300
ctgccccagt gaaaaaaaaa aa                          322

<210> 94
<211> 359
<212> DNA
<213> Mus musculus

<400> 94

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atccctgcgg	tgggtgggaa	ggagctggat	cttcacgggc	tctacaccag	agtcactact	60
ttaggcggat	tcgcgaaggt	ttctgagaag	aatcagtggg	gagaaattgt	tgaagagttc	120
aactttccca	gaagttgttc	caacgctgcc	tttgctttta	aacagtatta	cttgcgagcc	180
ctgggtccag	tgcccagcat	ctcatagccc	agatctgggtg	gcacatgcct	gtgattacag	240
cactgggaaa	gacatgagag	cagagaggaa	aggacaagag	aagagaaaat	ggtcacctta	300
taagtgtttg	ctgtaaaaaa	gttttttatca	ttaaaagatt	ttaaatcaca	aaaaaaaaa	359

<210> 95  
 <211> 116  
 <212> DNA  
 <213> Mus musculus

gtaacatctg	cacctgggtc	caggetccaa	ggatgaattg	gtgggaatgg	gcctcccccc	60
accttttata	agtgcattct	ccattaaaca	tttgagcctt	gatcaaaaca	aaaaaa	116

<210> 96  
 <211> 271  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(271)  
 <223> n = A,T,C or G

tdccaccgct	cgaggctcac	attgggttcn	tgaagtatga	tcaanggnct	ggcttncctc	60
tnntacntga	cacttncctc	cctgnncgac	aggggccgtn	gctganannn	acctgaagat	120
gagatncana	ccctgganat	atggnggcgc	angccactgc	ngctgcagga	gatgngcact	180
gtcgttttat	gtttcctaga	tcagaaccan	gctacagccc	aggaaacacc	tgtttctgta	240
aataaagttt	tattagacag	aaaaaaaaaca	a			271

<210> 97  
 <211> 165  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(165)  
 <223> n = A,T,C or G

actgaggagg	ctaaagcaga	agggtcactg	ntacttgggg	agtgacttca	aggccagctt	60
caacaactta	gtgggaccct	gnctcaagta	agtaaaaaga	agactgggaat	tatagctcaa	120
ttatagtaga	acacttgccc	attatgtatg	agaaaataaa	agaaa		165

<210> 98  
 <211> 307  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(307)  
 <223> n = A,T,C or G

tggatgcagg	tccaaccaac	ggatcctntg	nggtccaaac	ctnntcaanc	caggagcccc	60
cgangncacc	gccctgtgag	cctctncttg	cggatgcccc	accagcccgt	cacaagctgt	120
cacccgagtc	tccgagaaat	tctctgggga	gacctnagnt	tcagctctgt	cacccacatc	180
tgctgccatt	gtggggggct	tcaccccaag	ccctagnagag	gcgcacacgn	ccttggaactc	240

ccagacccac tgaaaaaagt ncntctttca ctcaggncctt tgncttggn c tctgggtatg 300  
ggagcag 307

<210> 99  
<211> 354  
<212> DNA  
<213> Mus musculus  
  
<220>  
<221> misc\_feature  
<222> (1)...(354)  
<223> n = A,T,C or G

<400> 99  
ctcgagccaa gaacctttcg cccgccccgc ccgcgcgacc cgtcccactc tgcgcccngn 60  
ccngcccgcc aatggaaaag ctgcaaattg cgcgaccagc ctgccgcggg cgaccggcag 120  
aaattcgggtg tgtgcaagcc cgggaaggct ccgtcagacc tggagggtggg gacagcgtgt 180  
tgcaggcccc ggggagatgg cgcctacacg cngnncggcc tccatctctc ccagggttcg 240  
ccaagccacg gcgcagccaa ttggctcgga gacatggcgg ggtgcctttt cgccttggtc 300  
ctctgcggca ctctgctgcc gataatcgac gccttggaac tggaaaaaaa aaaa 354

<210> 100  
<211> 370  
<212> DNA  
<213> Mus musculus  
  
<220>  
<221> misc\_feature  
<222> (1)...(370)  
<223> n = A,T,C or G

<400> 100  
gcttctgcta cttctgcctc attgttcggy acncacggng nagnnatgct ncnangactn 60  
ttttatcaat ttggagntgg aancncaccn cgcncgncct ttnattagnt agnctgggtg 120  
catcaaccat tactaccttg naggntttga anggattagc cccatancct ggggggtttt 180  
actttttcca gacaagntct caagnatccc agggngggctt cctgactctc tcnagtancc 240  
gaggataacc atatacttct gatccccacct gnacctnctg agtcctgttt taatggggng 300  
ctgagactcg aacccatggc ttcncanatg ctanganac gcttttctgag ctgagctcca 360  
ccccagcct 370

<210> 101  
<211> 104  
<212> DNA  
<213> Mus musculus  
  
<220>  
<221> misc\_feature  
<222> (1)...(104)  
<223> n = A,T,C or G

<400> 101  
ccagcctggc ctacattgag aaacctcatt ttngnaaagn naaatacttc gtcaattaac 60  
atcgcanntg gttcaataaa gacttttgga aagtgtcaaa aaaa 104

<210> 102  
<211> 261  
<212> DNA  
<213> Mus musculus  
  
<220>  
<221> misc\_feature  
<222> (1)...(261)  
<223> n = A,T,C or G

<400> 102  
atgtctgact gcacctggga ggaccctatg tcgcaaattng gcttatttcc cctnccgnaga 60  
cctantcaca ngtcacncag tnnngagcgt tcggtacaga tttccgggan ggaacacaca 120  
ggtcatttgc gcccgaaact tgcncgtgtg cttgcgccat ttcctgcatc ctggcgcgcc 180  
tcctccctcc ccacctncct tctccgagcg ncttaagccc aggcctccgg cctccgtctc 240  
tgaggggtcct tggggggggcg g 261

<210> 103  
<211> 330  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(330)  
<223> n = A,T,C or G

<400> 103  
cgaggagaag tacttgactc tttatannan tctgannnat cttggacggg actatncann 60  
aggagcaggc tatttttaaaa ggcgnnnngna gancgcttnc cntancttca aggatgcgga 120  
ggacccanana aanatcactn nacttatccc acgaggagan cttgcattga angagctaga 180  
ngccntgccc ttncettanga aatacagagc nctgntgctt acgttactat tcagatncca 240  
aagtctgacc aatcattgca ccagtcgagc tgacaaccag tgctggctgt ttgcctgtac 300  
caactattaa aaaataattc agttttaaaaa 330

<210> 104  
<211> 107  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(107)  
<223> n = A,T,C or G

<400> 104  
ctgacattat gggattgcag actaagaagg ncctactgac cccctcata catccagctc 60  
gcccttttctg agtttcaaac catgaccgaa gtagtgaaaa aaaaaaa 107

<210> 105  
<211> 129  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(129)  
<223> n = A,T,C or G

<400> 105  
aactgagatg tctgagagca aacaggtacg aagacagcgg gaccagtgcg tcaactcagta 60  
aagcangcaa agaaacttcc tgtaagcgac aaantagaga agggtcctgg gactcttcac 120  
tggtgatga 129

<210> 106  
<211> 128  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(128)  
<223> n = A,T,C or G

<400> 106  
 tgtgttgaca gtgttttact cgaggatttg ngtnacnagaa acatcagngn gatcacactc 60  
 acgaaataat ggnacnggag acattgatgg aaantttcat tcctcttatt catgattcag 120  
 actgagaa 128

<210> 107  
 <211> 120  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(120)  
 <223> n = A,T,C or G

<400> 107  
 acactgtgca cctttactac tggaccagag attattcgcc cggnaattgg ntncntncc 60  
 ccttgcttca taactgagtg tngcaacagt gaanattgga gctttgatca gaaaaaaaaa 120

<210> 108  
 <211> 255  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(255)  
 <223> n = A,T,C or G

<400> 108  
 tacagggaaat caggannccc tcccccttcc ttcatanctg agtgttgnaa ctannnggan 60  
 tgcagctnan gatcanatnc tgaaganaaa ctctatgaat atagacaatg nggtaaagtt 120  
 tttgcatgnc acagtcattc tcaaagncat gaaagaattc gngctggaga ggaatcctgn 180  
 gaatgtaatc aatgtaataa tcacagtact cttcaaaatc ctgaaaaaaaa tcatactgaa 240  
 gagagactat atgaa 255

<210> 109  
 <211> 155  
 <212> DNA  
 <213> Mus musculus

<400> 109  
 ttacgacagg aagaagcctg acataagcca gttacatgct catcaccctc gcgagaatgc 60  
 tgtgcaggag ctgaagactt gctttcagtc ctcacacctac agtgactgcg gcaccggaag 120  
 tcctggtatg ggttgaacaa accaccagcg ttaaa 155

<210> 110  
 <211> 404  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(404)  
 <223> n = A,T,C or G

<400> 110  
 tgaggggaaag tcatggaggc ttcaggntct tcttcccagt ctcaagacag tgggtggagtc 60  
 cacaggggaaa cggaagatca ctaccaagga gacatgagct ccacnagcat catgggaagg 120  
 cccggnagcg atanangaga gacaggtntt nctcttcac ctcnatctcn gcattcttctt 180  
 cctcctnttc ctcctnatct tcttcctnct cctnagnncg cntcnatgan gaccagnctt 240  
 ncntaggtcc cagnnnncac naaaggangc cccncaggga caganttgcg tgggtgcatga 300  
 ccatggngaa ctgnaagngc taaaggacga gcttnanctc tgcgnagggtg ctgctgcgga 360



aatggtncct actggcgagn caggactcct aaggagaggt tacg 404

<210> 111  
<211> 108  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(108)  
<223> n = A,T,C or G

<400> 111  
gacatgatac ggatgnccgg attcanctgt taaagcagtt actggaggac tccacctnan 60  
atgacgacgg gagcagctcc agctcctcgg gggacagaga gaagcgca 108

<210> 112  
<211> 485  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(485)  
<223> n = A,T,C or G

<400> 112  
gactgaggta aacttggnac cgntcaanag gtagtggatc tnacagaccc canccgtnc 60  
cgcttcactc tgcaagagct ganggaggng ctgcaggagc gaaacaagct caagtcgcan 120  
ctgctgctgg tgcangagga actgnagtgc tacaggagtg gtctacttcc acccanagan 180  
actncaggag gaagaagaga gaaggatgct gtgggttgcca tgggcaacgg cgagaaggag 240  
gagaggacca ttatgaagaa gctgttctct ttccgggtcag ggaagcatac ctagactgaa 300  
aaccatcacc aagatgggtga ccctcttgac ttgagaagac aattgccaat atgccttctg 360  
gaaccacctt cctgtgtcag gaatgtgcct tggcttgctc ctgcacagag cagtcagagg 420  
aagatgctcc ctcccatggc tcacctgctc tctggggaca gacctggaca gtcagtaagc 480  
tttga 485

<210> 113  
<211> 378  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(378)  
<223> n = A,T,C or G

<400> 113  
ttttgctgat cgccttgcaa gttttcatcg agtttggagt tttccaccaa atgaaagtac 60  
aggaaaagaa gtgacctgct tggcctggag accagacggc aaacttttgg cctttgctct 120  
tgcgataacc aagaaaatta ttttgtgtga tgtagaaaag cctgaaagct tacactcctt 180  
ctctgtggag gctccgtct cttgtatgca ttggacagaa gtgactgtgg aaagcagtgt 240  
tttaacatcg ttttataatg ctgaggatga gtccaatctt ctcttgcta agctgcccta 300  
gacccggacg tantcatcaa agtggagaaa cttgaccctg agttggactc gngaccacgc 360  
ttgacagcat tgcgttag 378

<210> 114  
<211> 136  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature

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<222> (1)...(136)
<223> n = A,T,C or G

<400> 114
tgtagaagag acactggcgg ccagcttgcg cttgggggga aacgattgaa catagtatng      60
gggtccatt tnactaacc aggctacatt gncganaact aacagcntga agntcctgac      120
ggccttcctg ccagtt                                     136

<210> 115
<211> 331
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(331)
<223> n = A,T,C or G

<400> 115
aactgaggtg gaaggacaca tacgctgacg ngctggcaat gcgatccatg gtgcgggttta      60
ncggaaggat ctagagacna gtcagctgac cctgagtagc caatgagaat tctccagttg      120
ctgctttaaa ttagagccgt ggccattaca ggagccgtca ctttgcttgc ctgccacgga      180
atccaggcct gtgcacctgg agatcccttg gggcccgatg acctgaagcc ttccccacagg      240
aaaaactgaa gcctgaacac tgtctacttt tcctccatct ttctttctct tagatggtga      300
aataaagaac tatcagacag caaaaaaaaaa a                                     331

<210> 116
<211> 461
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G

<400> 116
gctgccacce tctggaggnt cccgagtcct ttgtggntct gngngaaaag actctgtgta      60
cantgtgcta cnganccnga gngcggcatg tncgtgtacct cnttgatttg cccanaacct      120
gcgcccagga nggtctggtg ctgnactggn tggactgacc acagtgcctg tcgtccagct      180
tgcccagctg gcatggaata taaggagtgt gtgtctcctt gccccagaac ctgccagagc      240
ctgtctatca atgaagngtg tcancagcaa tgtgtagacg gctgtanctc gccctgaggg      300
agantctctg gatgaacacc gatgtgtgca gagcttccga gtgtccttgc cttgcacgct      360
gggaaagcgg naccnctccn ggcacctncc tnttctcngg acttgtaacn ntttgtatcn      420
gcngancagc ctatggatnt ggagcaatgg aagaatgccc a                                     461

<210> 117
<211> 124
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(124)
<223> n = A,T,C or G

<400> 117
tgatcattag gaactttgat cagaatagan ggagcagagg tnctaaactc nattcnccag      60
aggcntgat gaatcctnng ntcagctnca gttnngtactc atctacataa aataaatgat      120
taaa                                             124

<210> 118
<211> 261

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<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(261)
<223> n = A,T,C or G

<400> 118
tttctactgg accactatat tattggggccg gganatctnn ntccccctn cn tngcttcn      60
tnactgattg cttcatnagt ganagtggag ctttgatcat tgnagctttg atcagnatatt      120
nnacnanaga cntttgnccn atatccnaag gngngggcat actggagaga aaacttatga      180
atgtaatcaa tgtggtaaaag cttttgtaag acccagtcaa ctccaaacac ataaaagaac      240
acattctgga gagaaaccct a                                     261

<210> 119
<211> 391
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(391)
<223> n = A,T,C or G

<400> 119
cagggaggat agccgatata tncttantga cagcttcnnc nncngtntng anactgncac      60
agctggactc tggngaccac tnacnntatg ggnantgatt gcctttcnnc gncaacagcc      120
cttccnnttt ntntacagn ttgtggngnc tatgggccag atatacgng atgagctgta      180
cttcctgaca gagctacacg aaggactcca gcatggggag ataggncacc ccgtttatatt      240
ctggttctat tttgntttcc tgaatgctgt atgngtggtg ataccaagca tccttggtgct      300
tgatgccata aagcatctca ctagtgccca gagcgtgctg gacagcaaag ncatgaaaat      360
taanagcaag cataactaaa gagccggaga g                                     391

<210> 120
<211> 326
<212> DNA
<213> Mus musculus

<400> 120
ctaaagctcc agggaataga aattcctgaa gggacacgat tacaaagcag acagtcagtt      60
ccttggtgaa atcatggaaa tcaatgaaag actcgcagac gcccaaagtg aggccgccat      120
ggaagagata gaagccactg tcagagctaa acagaaagaa tttactgaca atataaacag      180
cgcttttgaa caaggtgact ttgaaaaagc caaggaaactc ctgacaaaga tgagatactt      240
ttcgaacata gaagaaaaga tcaagctaag caagactcct ctcttggttg taacttaaag      300
ttttagaaat aaactttgta tttctt                                     326

<210> 121
<211> 452
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(452)
<223> n = A,T,C or G

<400> 121
gtggggtctt tcaacttgcc gggaggagca caagaagaag cacccgatg cttctgtcaa      60
cttctcagag ttttccaaga agtgctcaga gaggtggaag accatgtctg ctaaagaaaa      120
ggggaaatth gaagatatgg caaaggctga caaggctcgt tatgaaagag aaatgaaaac      180
ctacatcccc cccaaagggg agaccaaaaa gaagttcaag gacccaatg caccgaagag      240
gcctccttcg gccttcttct tgttctgttc tgagtaccgc cccaaaatca aaggcgagca      300

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tcctggetta	tccattgggtg	atgttgcaaa	gaaactagga	gagatgtgga	acaacactgc	360
agcagatgac	aagcagccct	atgagaagaa	agctgccaaag	ctgaaggaga	aagtatgaga	420
aaggatattg	ctgnctacag	agctaattgga	aa			452

<210> 122  
 <211> 415  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(415)  
 <223> n = A,T,C or G

<400> 122						
cttcttgaga	gatcancctt	ggtgaanagt	tnctagcaca	caggtgacta	cgagaagggt	60
ntgnaccanc	tgtcaaagtc	cnttgctgtg	tgtggacagc	ctcagcagcc	tgntgcaagt	120
gtnacagnnn	actctttcgt	cnccagagtg	ngcnnatgct	tgtnaccaag	ctttccgacc	180
atnagtnaga	gaattggnag	ngctcaaagc	tnggntnnag	atgatgtgga	atgagccaga	240
taccaacaag	atanaatctc	agtanaataa	tctnaacnnt	taggcttgga	agctgggtcan	300
ctctggggga	ttaagggcaa	attatgctgt	catgaactgt	cccacactga	cgtnctgccca	360
aagcgaatat	gaactttggt	nagaccatt	gtctggncta	tttatttttc	cagta	415

<210> 123  
 <211> 427  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(427)  
 <223> n = A,T,C or G

<400> 123						
tccgtcctag	aactgacaag	ccagattctg	ggagccaacc	ctgattttgc	caccctctgg	60
aactgtcgca	gagaagtgt	ccagcagcta	gaaaccaga	agtcccctga	ggagtgtggt	120
gctcttgtga	aggcagaact	aggcttcctt	gagagctgtc	tgcgtgtgaa	ccctaagtcc	180
tatggcactt	ggcaccaccg	ctgctggctg	ctgagtcgcc	tgccctgagcc	caactgggcc	240
cgggagctgg	agctgtgcgc	tcgcttcctc	gaggccgatg	agcggaactt	tcattgctgg	300
gactatcggc	gattaaccaa	ngggnagnct	tttgttctca	ctgcananta	aaataatcaa	360
nactgacagc	ctgaccaccc	ngaacttctc	caactattct	tcctggcatt	atcgctcctg	420
cctattg						427

<210> 124  
 <211> 260  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(260)  
 <223> n = A,T,C or G

<400> 124						
cctggggagcg	ttctgggggc	attgggcaac	ccctttcact	cctttctgagg	aacanatgat	60
tgccgaggct	attcctnntc	tgaaagcnc	catcnanana	ggcagangac	tttgnaaga	120
ncatgaantg	agaggngaga	gcctgganca	ggatcccng	catcntncta	acttattcaa	180
tcactntgtc	tttggaacca	ctngagaatc	tatttngcgt	ctgatggagg	gtgtngagnc	240
agnatcatgc	atctcttcca					260

<210> 125  
 <211> 414  
 <212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(414)

<223> n = A,T,C or G

<400> 125

ctaacgtaca	gaacagcttg	caagttaccg	atttgtacag	aagcgatgca	accttcatct	60
tgttgatata	tggaatatga	tcgaagcttt	ccgagacaat	ggccttaaca	cgctggacca	120
cagcacggag	atcaggcgctg	tnccgcctgg	agaccgtcat	ctcgtccatc	tactatcagt	180
tgaacaagcg	ccttccttct	actcaccaga	tcagcgtgga	gcagtccatc	agtctcctac	240
tcaatttcat	ggtcgccgcc	tacgacagtg	agggccgagg	cangttgacc	gtgttttcag	300
ntaaagctat	gttagcaacc	atgtgtggtg	gaaaaatgct	ggacaaattg	agatacattt	360
tctcccagat	gtcagattcc	aatggcttaa	tgatgttnng	aaagcttgac	cagt	414

<210> 126

<211> 146

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(146)

<223> n = A,T,C or G

<400> 126

gcttgctgac	aaagaagctg	ccgncctgac	catctancct	ctcagacntn	angctgnnga	60
ccatananct	anngacactn	aggntgntgg	agacctcacc	caggaagcct	ttgatccttat	120
aagtaaaggt	atgcgaaaaa	aaaaaa				146

<210> 127

<211> 419

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(419)

<223> n = A,T,C or G

<400> 127

gggcgtgtga	ccccgctgcc	tcccccttct	ccctgctgct	cgtgtccaga	ggatgagccc	60
agccttcagg	accatggacg	tggagccccg	caccaagggc	atcctgctgg	agccatttgt	120
ccaccagggt	gggggggact	catgcgttct	ccgatnnaat	gagacaaccc	tgtgcaaacc	180
cctggttccg	aggggagcatc	agttctacga	gaccctccca	gctgagatgc	gcagattcac	240
tccccagtac	aaagggaagt	gtggtncnct	ganaccnnc	ttcccgtcc	tgtgcgcca	300
nagntggtgc	ccgcctnacn	tntgnccnct	ctntntgagc	acgcattncc	ctgcagcang	360
caagnngtcg	ggcagcanag	actgagcana	tngaattgacc	gtggggcata	taaggccta	419

<210> 128

<211> 193

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(193)

<223> n = A,T,C or G

<400> 128

gacctcacca	cctccaacca	cagnccctcn	cacggagagg	tcttntgaca	gatgtcnatg	60
agaacaaccc	acnactnttc	gccggaagag	gaacatgtgc	nccagacctt	cntaannact	120

tcaatatgat	cggagcatnn	atangagggc	gnctatgatt	ctacagagaa	ctgaaaggaa	180
aacttttcat	cag					193

<210> 129  
 <211> 474  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(474)  
 <223> n = A,T,C or G

<400> 129						
actgagcttg	agatccgaaa	agcgggtccg	aacacaggat	catagagacg	acgggagcag	60
agcgtatccc	ctggcggcac	cacggaggta	acgcggaggg	cggctagagc	gtcactcgcc	120
caggcggttt	cctcttcggc	agtcctcctt	cccaacatgg	cgcagtcgat	taacatcacg	180
gagctgaatc	tgccacaact	ggaaatgctc	aagaaccagc	tggaccagga	agtggagttt	240
ttgtccacgt	ccattgctca	gctcaagggt	gtccagacca	agtacgtgga	agccaaggac	300
tgtctgaacg	tgtctgaaca	gagcaacgag	ggaaaagaat	tactgggtccc	actgacgagt	360
tctatgtacg	tncccggtta	agctacacga	tgtggagcat	gtgcttattg	atgnnggaac	420
cggntactac	gtggagaaga	cagctgagga	cgccaaggac	ttcttcaaaa	ggaa	474

<210> 130  
 <211> 152  
 <212> DNA  
 <213> Mus musculus

<400> 130						
ctttatcttt	ggtgggtcggc	atctgatgaa	caagcgagcc	aagtttgaac	ttcggaagcc	60
gctcgtgctc	tgggtcgctga	ctcttgccgt	cttcagataa	ctgtttggtc	acgttgctta	120
gtaaaataaaa	gtccacacta	tgaaaaaaaa	aa			152

<210> 131  
 <211> 769  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(769)  
 <223> n = A,T,C or G

<400> 131						
gagcaagagc	agctctacct	gcgggtctggt	gtgggtgacct	ccgcaacctt	tgagcagcca	60
gggcggcagg	tcaagctgtg	ggtgaagatg	gtgaccccg	taatcaagaa	cttcttctga	120
gaacaggaat	ggccttgatg	aagatgacgg	gcctgactgg	ggtcagatcc	ttcaaccggg	180
cttcagcaat	gactccggtc	tgggtgtccc	agcgagctcc	tgtggggaca	atggagctga	240
gggtctgggt	gccctagggg	aggcagaacc	cactgttttg	atgctgaccg	tgaaaaaggg	300
aggcacggtg	gggagagagg	cctggcctcc	aacctcccca	ctcttttcag	agacaggcca	360
gtgactggga	gccatgaagc	gttcangcca	ggtgccangg	tctgagagtg	ccaaacatgg	420
aggaatgtga	accaaggact	tcgangtgac	tcttgacattg	cccgtaatgg	gctctgaagc	480
tgnatcttct	taaaacttta	atcttaagcc	nttttcaatg	ntcaantggg	cannagaaaa	540
acttggancc	gcaagnntca	anaatnccca	agcaaatggg	tnccctttcc	ttgaaacccc	600
cttccttggg	ggnaaagggg	cttaacttct	tcttggggga	cccttttangg	gggaaataaa	660
ggttantttt	tttttaggaat	gccccenttt	tttttaaacc	cccttttttt	gggccccctt	720
aaacccccnn	aaanntgggn	ttgggtgggg	ccccctttaa	accctttaa		769

<210> 132  
 <211> 458  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(458)  
 <223> n = A,T,C or G

<400> 132  
 actgaggtga atgaggactc tggggnnact catggagaag atgcggttgt gatcctggag 60  
 aagacaccat ttccaggtaga acacgtggcc gcagctccta acggggagcc ctgagctcaa 120  
 gttgcagttc tccaatgata tctacagcac ctataacctg tttcctccaa ggcattctgag 180  
 tgatataaaa acaactgtgg tgtaccctgc cacagagaaa cacctgcaaa aatacatgcg 240  
 tgaggacctc cgcctgatcc gagagactgg agatgactac aggaccatca ccttacccta 300  
 cctggaatcc cagagcctta gcatccagtg ggtgtataac attcttgaca agaaggctga 360  
 agntgaccgg attgttcttg agaaccana ccttcttgat ggctttgctc tcntccaga 420  
 cencangngg aaccagcanc agcttgatga cctgtatt 458

<210> 133  
 <211> 114  
 <212> DNA  
 <213> Mus musculus

<400> 133  
 gtactgaggc aagttacatt gcctcaacac agtacacccg acgggtacgt ggcgaaagca 60  
 gcggagggtc aaagaaggat actgtgcccc aagaggaggt cccaaaaaaa aaaa 114

<210> 134  
 <211> 204  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(204)  
 <223> n = A,T,C or G

<400> 134  
 gactgagctc cccctcccca gaggttaagca gccctccagc gccaaagcagn ttagcatgtg 60  
 tgactctgga caagacaacc ttcccagggt tctgaccgta naggacgcaa naagacgacc 120  
 atgtctgagg gcaagatctg aggactaggg atggngctca gacctgccac acccaaggtc 180  
 tcttcagcac agcagaaagg aaga 204

<210> 135  
 <211> 377  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(377)  
 <223> n = A,T,C or G

<400> 135  
 ttccctgggtg gactccagtc aagtgtcgac atttctgata tccattcttc ttatagtcta 60  
 tggtagtttc aggtctctta atatggactt tgaaaaccaa gataaggaga angacagcaa 120  
 cagttcttct ggctctttca atggcaacag caccaataac agcatccaga ccattgattc 180  
 caccgaagca ctgttctcc cgattggagc gnetgtctct ctctctcnca tgttcttctt 240  
 ctttgattca gttcaagtcg ttttcacaat atgtacagca gganntgnan aacnnnttc 300  
 cncnnntggg gatatgcctn agtgantgnn atcaccangg ctgctgctca ggctggnaac 360  
 aaactaagat ttcccgg 377

<210> 136  
 <211> 344  
 <212> DNA  
 <213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(344)
<223> n = A,T,C or G

<400> 136
tccgaacaaa aagtggggtc tgtgngcccc ggaagnngac ataccgattg actgnnggga      60
aaggaaacat ggantcmeta actgangggc gccagacat gaaaacagac ctgtttctcca      120
gctcgtgccc aggaggaatc atgctgaaan agacggggcca gggctaccag cgctttctcc      180
tctacaatcg ggtcaccaca cctccaaan aagtgtgtgg aggaattcca gtctctgacc      240
tcttgcttgg acttcaaagc cttcttagtg actcccagga ntcaagagga ctgcccgtg      300
tccagcaagt gaccagtgc ttccccgggt ctaaaaaaa aaaa                        344

<210> 137
<211> 121
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(121)
<223> n = A,T,C or G

<400> 137
aacataagca ctcacannat gaanccctgc caaaaaatgg aaggaaacct agaaaaggag      60
natganccaa agcctnagna nnagccaaca gccngagnaa aagcctctag gaggggcagg      120
a                                                                121

<210> 138
<211> 320
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(320)
<223> n = A,T,C or G

<400> 138
ccctgacatc ccttgagcgc agacccttct agccgattac atcaatgggt tcccgggaga      60
caccttcttc ttgctctaag acccttgaaa ccttgacat ggagacttcc gacagctcta      120
gccctgatgc tgacagtcct ctggaagagc aatggctgaa atcctcccca gccctgaagg      180
aggacagtgt ggatgtggta ctggaagact gcaagagacc tctgtccccc tctcgcctn      240
cgacaggcag agagatgatc aggnacaaac tcnaagcgaa ccgncngagc attgaanaca      300
tntgtctctg ctgaggaact                                     320

<210> 139
<211> 418
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(418)
<223> n = A,T,C or G

<400> 139
tgccctgcat cacctgggtg nggcagtgc aagcccggtc agtggccctg gcaggtcagc      60
atcacctaca atggctacca tgtttgtggc gggctgctcg tgtcaaataa atgggtgggtg      120
tctgtgtctc actgctncc cagagaacac agcagggaag cgtatgaggt gaagntggng      180
ncccaccagc tanactccta cagcaatgac actgtggtec acacagtgnc tnagatcatc      240
accactcaa gctaccgaga ngagggctcc caggggggaca tcncgctcat ncgcctcanc      300
agtccgtgca ccttntcccc ntacatgang acaccatctg cctncctgaa gncaatgcct      360

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gctttttcca acggncttc actginctgn cacggaatgg gntcatgtgg ctccttga 418

<210> 140  
 <211> 179  
 <212> DNA  
 <213> Mus musculus  
 <220>  
 <221> misc\_feature  
 <222> (1)..(179)  
 <223> n = A,T,C or G

<400> 140  
 agaaggtggc cactttnnac tatatgcatt tgaagatgtg ctccctccac ngaccaactc 60  
 agccacctgc cacttgaggg gtccacgggg gcaatgnngg gaggaagcan tggaggggct 120  
 cccctaaac gtgggagtc aggctctgaa caataaatgg cctctcatgc tggcatgaa 179

<210> 141  
 <211> 357  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(357)  
 <223> n = A,T,C or G

<400> 141  
 gaactgagct ggattaanca gctctccagt atgaacttca tagatggcag catcataatg 60  
 tgacgtcacg gcttgaacat gactgacagc atcttcagct gctgaggtec ctcacagct 120  
 catggtgact ccagtttgaa ctctcaagct gcctgcatcc agagcctcaa acccactgtc 180  
 ctggtctcag gagcccatct acaagctcag aatgagggac cacatcctga ctctgcatca 240  
 ctctgccaa tgagcattgc ccacctaggg ccagaagtaa cataaaggaa taggcagtga 300  
 atgaanaata gagagctagt gtgnggtac acacctatga ttccagcact tgggagg 357

<210> 142  
 <211> 224  
 <212> DNA  
 <213> Mus musculus

<400> 142  
 gactgagaga tgtggtatgg tgtgttcctg tgggcaactga tgtcctctgt gttctttcat 60  
 gtccctgccg gactgctggc cctcttcacc ctcagacacc acaaatatgg taggttcatg 120  
 tctgtaagca tcctgttgat gggcatcgtg ggaccaatta ctgctggaat cttgacaagt 180  
 atgttagaca ttaaaatacc ggtcaaaaac gtgaaaaaaa aaaa 224

<210> 143  
 <211> 414  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(414)  
 <223> n = A,T,C or G

<400> 143  
 gactgagccg ccctgcaggc tctgaagcgc aagaagaggt atgagaagca gctggcacia 60  
 attgatggca ccctgtcaac catcgagttc cagcgggagg ccctagagaa cgccaacacc 120  
 aacacggagg tgetcaagaa catgggctat gccgccaagg ccctgaaggc tgcccacgac 180  
 aacatggaca ttgataaggt ggatgagtta atgcaggaca ttgctgacca gcaagaactt 240  
 gcagaggaga tttccacagc tatctccaaa cctgtgggct ttggagaaga gttcgacgag 300  
 gatgagctca tggcagagtn ttgagncttg ancaanaaga gttncgcaag aatttgttgg 360

agatcagtgg gcccgaaaca gtccctctac caaatgtccc ctccgtaccc tacc 414

<210> 144  
<211> 248  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(248)  
<223> n = A,T,C or G

<400> 144  
ggactcccct aggattccga gcacctttcg ctgtggactc cagccccacc cgaggntgga 60  
tgtggagctg aggaaactga cccaccgctt gctttcctgg gagccccctt ctctcctaata 120  
tcatgagcca cgcaggatgc tggtcgcctt gcgctttcag aacgcctgct catagctgcg 180  
tacaaaggcc aancannttn ntgtggnnnn gngnnatcaa caaggggtgcc aaggcagccc 240  
gttaccaa 248

<210> 145  
<211> 492  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(492)  
<223> n = A,T,C or G

<400> 145  
gacttcagga accatgccga agccacacag tgaagcaggg actgccttca ttcagaccca 60  
gcagctccat gcagccatgg ctgacacctt cctggaacac atgtgccgcc tggacattga 120  
ctctgcccc atcacggccc gcaacactgg catcatttgt accattgggc ctgcttcccg 180  
atctgtggag atgtgaagg agatgattaa gtctggaatg aatgtggctc ggctgaattt 240  
ctctcatgga acccatgagt accatgcaga gaccatcaag aatgtccgtg aagccacaga 300  
aagctttgca tctgatccca ttctctaccg tcctgttgcg gtggctctgg atacaaaggg 360  
acctganatc cggactggac tcatcaaggc cagcggcacc gctgaggtgg agctgaanaa 420  
gggagccact ctgaanatca ccctggacaa ncgcttacat ggagaaagtg tgacgaagac 480  
atccctgggg tt 492

<210> 146  
<211> 465  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(465)  
<223> n = A,T,C or G

<400> 146  
actgaggaat ctcatgcact agggnaagga acctgaaaac ccagcagaca tgattgaaga 60  
aggagagtgt atcctatctg tgaacatctt atatcctgtt atatttaata agcacaaga 120  
acacaaacca taccagacca tgttggtact gggcagtcag aagctcacag aactgagaga 180  
ttcaatttgc tgtgtcagtg acctccagat cgggtggagaa ttcagcaacg cgcagacca 240  
agcccctgag cacatcagca aagacctcta caagtccgct tttttctatt ttgaaggaac 300  
attttacaat gacagaagat acccagaatg cagagacttg agcagaacta ttatagagtg 360  
gtcagagtcc catgatcgag gatatggaaa atttcagact gctagaatgg aagatttcac 420  
atttaatgac ttgcatatta aacttggtt tccttactta tactg 465

<210> 147  
<211> 111  
<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(111)

<223> n = A,T,C or G

<400> 147

gactgaggaa aatcttctgg ntgtnatntt atataaccaa acatgtcatg gnccttcaca	60
gcatacnaat agttttgacg ttttaaatan aagtatccag cacagacaaa a	111

<210> 148

<211> 425

<212> DNA

<213> Mus musculus

<400> 148

ggggtctttc aagagcagcc ggtatcagtt ccgcaatctg gcagaatgcc tacagaaaat	60
tcgagacatg attgccgagg ccagccaggt acccaaagag ccatccaagg aagatgctcg	120
gcttcagaga ctcaggattg aaaagatgaa tcgggaaaagg ctacgacaga aaagactaaa	180
ctctgcccta aagaccagca ggaggatgac tatggactga agtcggccct cctgctggc	240
atagacctga gtgccagtgc agctcagcag agcactgaca cacacaggag acttttctcg	300
attaaccgcc ctgcccgagc agcgttcctt tggagggagg ctgcagatca tccagggctg	360
ccccttcctg tatccacctc atgaatcact ggctgcaata aacatcgaag cacaggaaaa	420
aaaaa	425

<210> 149

<211> 243

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(243)

<223> n = A,T,C or G

<400> 149

gatgaccgag aagcgcttga aaaggagaaa gcaatacatt gaacgcntga gaaacctgac	60
tgaggaagaa aggcgggcag aacttcgggc aaatggcaaa gtcattacca acaaagctgt	120
taaaggcaaa tacaagtttc tacagaagta ttatcaccga ggtgccttct tcatggatga	180
ggatgaagaa gtctacanga gagactttag tgcacctact cttgaggaat ttgacaggat	240
ggc	243

<210> 150

<211> 128

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(128)

<223> n = A,T,C or G

<400> 150

cctgagcggg gcatctggng gccgctgtct atgctctntt ttccnctgga nagaatattt	60
aaggaangct ccttcattaa gtattaagna tatggaaata aagaattact cagtcttaaa	120
aaaaaaaa	128

<210> 151

<211> 528

<212> DNA

<213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(528)  
 <223> n = A,T,C or G

<400> 151  
 cactgaggag tctagagcag gaggatcttg agttnaagng naaggntggt atangtagtg 60  
 tgtggagaac agctggnggc aacgagatgg ctgcttctgt cccatgggcc tgctgtgctg 120  
 ngcttgccgc tgccgccgcc gntgtataca cgcagaaaca cagtccacag gaggcacccc 180  
 acgtgcagta tgagcgtctg ggcgcagatg tgacgctgcc gtgtgggaca gcgagctggg 240  
 acgcagctgt gacatggagg gtaaacggga cagatctggc ccctgacctg ctcaacggct 300  
 ctgagctgat actgcgaanc ttaaaactgg gccacagtgg cctatacgcc tgttttcacc 360  
 gngnanttct tnggacttgg ggccncnaaa gcctttttaa atntgggggt tgccgccgcg 420  
 gggagcctgg tgcttcagct tgccgcttca acaacttacc ccaagggtt ctactgcagc 480  
 ttggaacctg cccaaccccc acctacatnc ccaatacctt caaatgtg 528

<210> 152  
 <211> 343  
 <212> DNA  
 <213> Mus musculus

<400> 152  
 tgagagatta ctggcttcga gtcccaagcc tctggcatta gcttcctgag agctggactt 60  
 acagagtgtt ttctttatgg taaaagggtt tatcccacag cccacattgt caggaatggc 120  
 tccctctaaa gtgaaagtgg ataaactcaa gagaaaggat tggatcatac acggtttttt 180  
 ttctcctttg agattataat gaacatgggtc acaccacaag taaagtccga agtaggacag 240  
 aaaacgctct gaaggcttgt ttgatcaccc gttatcgta aaaatagctg acccctaaca 300  
 atatgtaccc aaatataaaa tgtaataaaa aaataccaac aca 343

<210> 153  
 <211> 481  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(481)  
 <223> n = A,T,C or G

<400> 153  
 attcatgggc attgcagtct aagaaggtcc tactgacccc cctcatacat ccagctcgcc 60  
 cttttcgagt ttcaaaccat gaccgaagta gccggcgtgg ggtgatggcc agcagcctgc 120  
 aggaacttat cagcaagact ctggatgtct tagtcatcac aactggcctg gttacgctgg 180  
 tgctggagga ggacggnacc gtggnggaca cagaggagt ctttcagacc ttaagggaca 240  
 acacgcattt catgatcttg gaaaaggac agaaatggac accgggtagt aagtatgtcc 300  
 cagnctgcaa gcaaccaaag aaatcgggaa tagccagagt caccttcgac ctatacaggc 360  
 tgaaccccaa ggacttcctc ggctgtctca atgtcaaagc cacgatgtac gagatgtact 420  
 cgggtgtcta cgacatccga tgcacaagct taaggccgng ttaaggaatc tgcaactaaa 480  
 g 481

<210> 154  
 <211> 101  
 <212> DNA  
 <213> Mus musculus

<400> 154  
 actgagggaa gtagcttcta acaatgaact atggcaacaa ttctgcttca aaacttacta 60  
 atacaattgg atgaacagtt ggggcgtgtt tccaaagaaa a 101

<210> 155  
 <211> 438  
 <212> DNA  
 <213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(438)
<223> n = A,T,C or G

<400> 155
actgcgaaat tatcactttc tggccatgtt ggatttgaca gtctgcccga ccagctggtc      60
aacaaatcca cttctcaagg attctgtttc aacatcctgt gcgtgggtga gacaggtatt      120
ggcaaatcca cattgatgga cactttattc aacaccaaatt ttgaaagtga cccagctact      180
cacaacgagc caggcggtccg gttaaaagcc agaagctatg aactccagga aagcaacgta      240
cggctgaagc taacaatcgt tgacacagtg ggatttggag accagattaa taaagatgac      300
agctataagc ctataatgna atanatngac ncccantnng atgcctantg caagaagaat      360
tgaaaattaa acgttctctc ttcaactatc atgacacaag gattcncgcc tgcctttact      420
ttatcgcccc cacgggac                                     438

<210> 156
<211> 451
<212> DNA
<213> Mus musculus

<400> 156
actgagtatg acagtcattg ccctctccgg ggcctcaagg acgactttca cagtgcacaca      60
gtactctcca tcttaaataa gcagcgcatt cggggcatct tatgtgatgt caccatcatc      120
gtggaagaca ccaagtttaa agcccacagc aatgtccttg ccgcctcaag tctttatttc      180
aaaaacatct tttggagcca tacgatctgc atttccagtc acgtcttgga gctggatgat      240
ctgaaagccg aagtgtttac agaaatactt aattatatct acagctctac cgttgtggtc      300
aaaagacagg aaaccgtcac tgatcttgca gctgcaggga aaaagctggg aatatcattc      360
ttagaagacc ttagtgaccg caacttctca aattccccag gtccttacgt agtctgcatt      420
actgaaaagg gagtggttaa agaagaaaaa a                                     451

<210> 157
<211> 475
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(475)
<223> n = A,T,C or G

<400> 157
aactgaggct tttgtggcta caggaaccaa tctgtctctc cagttttttc cggccagctg      60
gcagggagaa cagcgacaaa cacctagccg ggaatatgtc gacttagaga gagaagcagg      120
caaggtatac ttgaaggctc ccatgattct gaatggagtg tgtgttatat ggaagggctt      180
ggattgatct ccacagattg gatggtatgg gttgcctgga gtttgatgag gagcgagccc      240
agaatctgat gtcattgatg atagccaanc tggggaaatc atggtgaact tcacaggctg      300
gttgaacaan ngtnaagtga tcagccctag atttaatgtg caactcaaag acccagaaaa      360
tagcgganac atntgctctc acctgncact ggcttcagn gnactgacnn cttcagctgg      420
agncatggac catgaagaac atgaggaana cacacncgaa gggaaaattc ttgtt      475

<210> 158
<211> 438
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(438)
<223> n = A,T,C or G

<400> 158
agactgagga ggaatctttg agtatgcgga tggtoccaac gccaggtca tgaacgctga      60
agagcacgcc ttctgatctt ctgccaacat catcaacaga aacaggactc tgctgcccac      120

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cacgaccctg	acttacgaca	ttcagaggat	tcacttccat	gacagttttg	aggccaccaa	180
gaagggtaag	aacactgaaa	acatgcgtgc	aacacatcat	attaaccgta	gtcaccttgc	240
tacgggtctt	attgcatctt	tcgttggcat	cctactcgag	tagcaatagg	tagcatacat	300
ataaagcaga	gactgtatta	gccccagagc	acaccatctg	cctgccgtaa	aaagacttta	360
taagcacagc	gtgctgctca	gtgcccgcga	catcttgacc	ccagaaccta	cagaaaaanc	420
cttgaagttg	acaccggg					438

<210> 159  
 <211> 437  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(437)  
 <223> n = A,T,C or G

<400> 159	
tgaggatacc	agcatgccag
cgatccagga	tccagcagaa
cagtcagagc	cagcagaant
aagaccgacg	aagaagatga
agtgtcctct	cactgtctgt
aagggtctgt	ttccagcaaa
tcatgtggca	caactgantt
tgcttcaaaa	aaaccca
	60
	120
	180
	240
	300
	360
	420
	437

<210> 160  
 <211> 224  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(224)  
 <223> n = A,T,C or G

<400> 160	
accagtgaca	attactacta
gcatttcttc	tgccaccacg
ccttgtcact	accagatctg
ggctggntca	tggacacctg
	60
	120
	180
	224

<210> 161  
 <211> 176  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(176)  
 <223> n = A,T,C or G

<400> 161	
actgaggaaa	atatatgcaa
ggnaatnntg	aatattataa
cttatgtatc	ctagtctaac
	60
	120
	176

<210> 162  
 <211> 357  
 <212> DNA  
 <213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(357)
<223> n = A,T,C or G

<400> 162
gggctctttc tacatagctc tggtgtgtoct caangtgngt agaccaggct gcttcactga      60
gngctaggna ttaaaggaag gcaccaccac cccggntctg ggccaatgan ancggcacna      120
aaagacccgn tgntgctogt ctaccattta ctgattcatc tccactccag aagnctanag      180
anacagaaga cnatcngtnt cactncaatg gncanataac tgagtactga ctggctcagg      240
ngatcctaaa gncaactcac caatgtagca naagcccnag tgtnaccgac tgaaggagaa      300
aacacaganc tacncattgc attnacctcc cctattattc attacatgcc accccac       357

<210> 163
<211> 529
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(529)
<223> n = A,T,C or G

<400> 163
gactgaggaa taatgtctca gccaatcagg atgaagaact gggtcatgag acattcctga      60
tgcaaatcga ccaggagaca aagaagtgtg ctttctattc cagcactggg ggctactgga      120
ccttgggtcac ccatgggggc attcaggcca cagccacaca agtctctgcc aacaccatgt      180
ttgaaataga atggcatggc cggcggtggg cacttaaagc cagcaacggg cgttttgtgt      240
gcatgaagaa aaacgggcag ctggccgcca tcagcgactt tgtgggcgag gacgagctat      300
ttacctcaa gctcatcaat cgacctctcc tggtgctgcg tggcctggat ggctttgtgt      360
gccaccgccc gggctccaac cagctggaca ccaaccgttc cacttacgac gtcttccact      420
tgagcttcag ggatggcgcc tatcagatta gagggcngng aggtgggttc tggtagacag      480
gcagccatgg aagcgtgtgc agcgacgggtg acttggcgga agatttcct       529

<210> 164
<211> 552
<212> DNA
<213> Mus musculus

<400> 164
atgagcggga ccgagtgcga aagaaaacat tcaccaagtg ggtcaacaaa cacttgatga      60
aggtccgcaa gcacatcaat gatctctatg aagaccttcg ggatggacac aacctgatct      120
ccctgttaga ggtcctctca ggcatacaac tgcccagaga gaagggcagg atgcgtttcc      180
acaggctgca gaatgtgcag atcgccctgg acttcctaaa gcagcggcag gtgaagctag      240
tgaatatccg caatgatgac atcacagatg gcaatcccaa gctaacgctg ggcctgatct      300
ggaccattat cttgcacttc cagatctctg acatctacat tagtggggaa tcagggggac      360
ccaccaggat aaaccaagtg agtgtttatc cactcacagc ctttcgtgac cctacatttc      420
catgcacagg tcagaagctg caccaatgag aagtcttcag gcgatgtaga aatgactgtg      480
gattctaata cacaccgaaa ttctgactga gaatttaaat tgcagaataa agttttaaaa      540
cctaaaaaaaa at                                     552

<210> 165
<211> 114
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(114)
<223> n = A,T,C or G

<400> 165
catggcatcc aaggatgaat nggccgggaa tggactttcc cccctttttt cccccctctt      60

```

ttctaaagcg ngctctgcat taaaaatttg aaccttgaga gaaaaaaaca caaa

114

<210> 166  
<211> 239  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(239)  
<223> n = A,T,C or G

<400> 166	tccatatatg	aaatgagnaa	caatgaatgn	ccagtggagg	ttgcttgcca	gacaggagct	60
	gagcccacct	gcagccaagc	ctccagcact	aaggncacca	ncagtggaag	nactcanacg	120
	gatganagcc	atnaaggcnt	anctgantcc	agnanggaca	aatnccagnc	tnctgcccac	180
	catgccaaag	ctgnngatan	ccctnggcc	ccaccaagtc	ccctactgag	attaccgctc	239

<210> 167  
<211> 461  
<212> DNA  
<213> Mus musculus

<400> 167	gataaaactc	catccgcact	cattctcaca	ccgacaagag	aactggccat	tcagatagag	60
	aggcaggcca	aggaactgat	gagtgggtctg	cctcgcatga	agacagtgc	tctcgtaggg	120
	ggcttacctc	tgccccaca	gctctatcgc	ttacggcagc	atgttaaggt	tatcatagca	180
	acccctggac	gacttctgga	tataattaaa	cagagctccg	tatcactcag	tggcataaaa	240
	attgtcgtag	tagacgaagc	tgacaccatg	ttgaagatgg	gcttttcagca	gcaagtgcct	300
	gacgttttgg	aacacactcc	tggtgactgt	cagaccatct	tggtttctgc	caccattcca	360
	gatagcatag	aacagctcac	agaccagctt	ctgcataatc	ctgtgaggat	catcactggg	420
	gacaagaacc	tgcttgcgcc	agtgtgcggg	aaatcattct	a		461

<210> 168  
<211> 457  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(457)  
<223> n = A,T,C or G

<400> 168	ttaggcccgg	aggcggaacc	ggaagaccgc	ggtactgggtg	ccacgtccgt	tgctgtgctg	60
	cgaattccct	gagtgggacc	ctggaggggcg	cgatggcaga	ttggactcga	gctcagagct	120
	ctgggtgctgt	ggaggacatt	ctggacagag	agaacaagcg	gatggctgac	agcctggcct	180
	ccaaggtgac	caggcttaaa	tcgctggctt	tggacatcga	cagggacaca	gaggaccaga	240
	accgttactt	agacggcatg	gactcagatt	tcacaagtgt	gactggccta	ctcacgggga	300
	gtgtgaagcg	cttctccacg	atggcacggg	ctgggcgaga	caaccggaag	cttctgtgtg	360
	gtatggctgt	ggtcttaatc	gtggccttct	tcacctcttc	ctacctcttg	ncgaggacaa	420
	ggacgtgagc	cagnnggagc	caagggcagc	caggcta			457

<210> 169  
<211> 313  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(313)  
<223> n = A,T,C or G



<400> 169  
 ggaaagaaga aatatgaata cggctccatc aagacccagc cccacacgaa gctcgcgtgt 60  
 cattgggagc cttcagagca ggaggagggc cccagggtcg agctgggtgtg tacctgccat 120  
 gttgctctgc agcaggcagc agagatttga ctcttcgttg caaattgctg ccgggtccaga 180  
 tgctaagcca ggtttgcggg aagagctgct tgagagctgc tgctgtgcct gtgctgcana 240  
 ccccgcgtgc tcgcatgtt gggttacttg tttgaaggga aataaaaagg gcaaaacact 300  
 ccaaaaaaaaa aaa 313

<210> 170  
 <211> 130  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(130)  
 <223> n = A,T,C or G

<400> 170  
 gtgtccacca cccacagccc agcggcctgc agcgatcntg acctnatctg cccactgan 60  
 ccacngaata angnanccnn ccctactctc ttgaatacca tcaataaagt tcgctgcacc 120  
 caaagaaaaa 130

<210> 171  
 <211> 215  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(215)  
 <223> n = A,T,C or G

<400> 171  
 gcctccaggt atgaaatcca aacagatgtg catagacngg atccctgcga ctgtcagagg 60  
 cagaagtcca catggataac cctgtctcag gaggaagg agacgtcaag gacagangga 120  
 gtggaaagcg aagcttcaact tcctttctag agaattctgct ncaancacca atatatatgt 180  
 aaatgtgtca ntatngaac tttcctgaca aatta 215

<210> 172  
 <211> 121  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(121)  
 <223> n = A,T,C or G

<400> 172  
 tgccgttctt ttgttcttct ccgtgaaaaa ctgtgtccgn agtgacaaag agacagtgtc 60  
 cgtttgttca tntgtgacat cagagnagcg tactgtagca catcncgaga gacagatgag 120  
 a 121

<210> 173  
 <211> 207  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(207)  
 <223> n = A,T,C or G

<400> 173  
 ggaactctca aaggtcngac acgcgaagna tggcatgctt ncatataaan gncatctnna 60  
 nnnaagttca ccctntcggg nnntgcaggg tgactcaggg ggccctggctg ctgcttgtct 120  
 ggctttgttg aagagggatt ggggaagcag ggttgtggnt cctattttct cccaccntn 180  
 caagccncg gcaaggtctt tgtcgaa 207

<210> 174  
 <211> 391  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(391)  
 <223> n = A,T,C or G

<400> 174  
 gactgagtc agcccaaaga gtaaacnaga naagcttggga gaagcccctc gccctgggng 60  
 ggtgctcttt gactttgnct nnganccgat gaccaccan aaccactgc tggagacaaa 120  
 cagccgctcc ccggggctga aggggtactgt tggaggtcat cgaacaagca agattatgag 180  
 gtttgttgat aagatcacca aatcaaaaata ttccaaaaa gcaacagaga cagaattcat 240  
 taaaaagaag atcgaagaag tctctaatac accagctgcc tgaggaaaag ctttggagga 300  
 gtcaaaaggc aaagggaagc cttctagttg tacagctttg ctctgaatgt gctcatttgn 360  
 ttgtccgtga gatgccagga cttggaaggt g 391

<210> 175  
 <211> 260  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(260)  
 <223> n = A,T,C or G

<400> 175  
 ctcttgccaa tgtggctnac tgcattgcatt angngctttg gatgacctga nctctggncn 60  
 acctgnancc acatggtagt naggctgctg acttgagag atggtgacaa gattgagtct 120  
 gtctggatga tagcatcctg tgccacctac tgatgactgg ttggtgtggg aagccacatg 180  
 tgccgttgca gagtgggtact gactactgct ggccaccacg cataagattg gacaaacaac 240  
 caatgtgtac atatgcagta 260

<210> 176  
 <211> 246  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(246)  
 <223> n = A,T,C or G

<400> 176  
 gtggggagcg tggattcttc tacacaccca tgtcccgccg cgaagtggag gaccacaaag 60  
 ttctgaagat gaactggatg tgcttttaca tggaacccca gaccaaagc gaaaactcat 120  
 ccgggaatgt cttactggag aaagtgagtc atcaagtga gatgaatttg aaaaagaaat 180  
 ggnggctgaa ctaaactcca ccatgaagac aatggaggac cagttatcct cactgggaac 240  
 agggca 246

<210> 177  
 <211> 535  
 <212> DNA  
 <213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(535)
<223> n = A,T,C or G

<400> 177
cacctccaga aattgagggg gaantanngc gagacttcat ggntgcgctg gaggcagagc      60
cctatgatga catcgtggga gaaactgtgg agaaaactga gtttattcct ctccctggatg      120
gagatgacga aaaccgggaa ctccagagnc aaagaaagac cctgcttaga cactatncag      180
gnngaangtt ccnatcttct agaccaacgc tcctanccat gggatgatcan ggaatggagg      240
ggaataacac tgcnggggtct ccaactgact tccttgaana gagantggac tatccggatt      300
atcagancag ncagaactgg ccagaagatg caagcttttg tttccagcct cagcaagtgt      360
tagatactga ccaggtgag ccctttaacg agcaccgtga tgatggtttg gcagatctgc      420
tctttgnctc cagtggaccc acgaaccgct tctgcatttt acagangcga gacaattctt      480
cngaaagacn gntncngnnn aattctacat aagaaaatct gcttttgggg gctgg      535

<210> 178
<211> 597
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(597)
<223> n = A,T,C or G

<400> 178
gacatcaatg cttacaatgg tgaaacaccc acggaaaagt tgccatttcc catcattgat      60
gataaggggca gggaccttgc catccttttg ggcattgttg atccagtcga gaaggacgat      120
aacaacatgc ctgtgacggc ccgtgtggtg ttcatttttg gccctgacaa gaaactgaag      180
ctgtctatcc tctaccctgc caccacgggc aggaactttg atgagattct cagagtgggt      240
gactctctcc agctgacagg caccacgggc gttgccaccc cagttgactg gaagaaggga      300
gagagcgtga tggtagttcc caccctctcc gaagaggaag ccaaacaatg tttccctaaa      360
ggagtcttca ccaaagagct cccgtctggc aaaaaatacc tccgttatac accccagcct      420
taagtctttg cggaaattgg ggctgcatct gcacatccag tactggggcc tgaggatgtc      480
agctggcagc ccgtgggtcc ttgcancang tccgtagaaa gatcgtggca tgatcacaag      540
ccggcctgta gatcgtctgc tatactactg ggcattaaat ggaaatggcc ccaaaaaa      597

<210> 179
<211> 203
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(203)
<223> n = A,T,C or G

<400> 179
ccggccaccg gcggtctgtg aagaagcctc accgcctacc gtaccggcac cngnttgc      60
gngcgagatn cggccgctac cagaagtcga ccgagctgct gatccgcaag ctgccgttcc      120
ancgctggt gcgcgagatc gcgcaggact tnangaccga cctgcggctt ccagagctcg      180
gngtgtnatg gctctgcagg aag      203

<210> 180
<211> 125
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(125)
<223> n = A,T,C or G

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<400> 180  
aaggagagac aagggccttn ctgaggcagn acaaggaccc annanctacc cagtaatgca 60  
nnagggcggn ccnnacgac tganctctga tcctaacctg caaagtgaag tttcaatttc 120  
cactt 125

<210> 181  
<211> 137  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(137)  
<223> n = A,T,C or G

<400> 181  
cagtggctct agttttgagg agcatctata caaaatgcat atacaantgg ttttagcata 60  
aacatnggag aaaagcgtct acactganac ataagagaag ttgttactga acatgtnata 120  
aataaggtgc aagaaga 137

<210> 182  
<211> 360  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(360)  
<223> n = A,T,C or G

<400> 182  
gtgtatgatg aaaaagatac agggagggtt cgttttgtag atcgtcagaa agagggtgaat 60  
gagaatttgc cattgatttg atagcacaac agcctgtgaa tgagggtggag caccgcatca 120  
taacctgcga tggaggcggt ggtgccctgg gccaccccaa ggtgtncnta aacttggaca 180  
aagaaacgaa aacggggaca tgtggctact gcggngctgca tttcaancag nagcatcact 240  
agtgtgggnt gtgtcctggc cctctgactc ctatggaaca tctccacgct ggggtgttctg 300  
tgtgaggcca ctgctctgtg aatgggtgtcc cttgttttga ataaaggatg ctcccacccat 360

<210> 183  
<211> 348  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(348)  
<223> n = A,T,C or G

<400> 183  
tccccacctt gcatcatgga anaaaatggg tggacccgaa aaatccacca tgggctactn 60  
agggtnacgc cactgcggtt tcacaaccag atgcactagg ggttcancag cnatcacttn 120  
tgggagcatc tcctaccatt tatacccagc agactgcatt ggcggnggca ggccttacct 180  
acaaacgcca ncnnactntc aggnaacaca aactgcggna ctgcagcaac aagctgcagc 240  
tgtnttacag cancaatatt cacaacctca gcaggccttg tatagtgtgc agcagcagtt 300  
gcaacaacct cagcagacca ttttaacaca gaatacgagg ctaggga 348

<210> 184  
<211> 310  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature

<222> (1)...(310)  
 <223> n = A,T,C or G

<400> 184  
 taagttccct ccagggcctc tgcactagna ctgcagtgtg ctccacatac atcactgtag 60  
 gcctgacctc ctaacttgag ataaccggaa ccaagttcct gggatgcagt tgcatttcca 120  
 acgtgatcca ctggggcatc aagagcanag gatgactgga gaggtagggg cgctgtattc 180  
 ccagctcctg gctgagggcc tctccagccc caagagttgt cctggaagta gattngctgt 240  
 ctccatggac atgtgancaa tgggaaaaag aagcatacat tcagnantac tgacaggaag 300  
 aggacaagca 310

<210> 185  
 <211> 271  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(271)  
 <223> n = A,T,C or G

<400> 185  
 actgagggag atctctggcn acctggnagt cacatttcat ggttgtgctc atcccttccg 60  
 ggtccaggta cagagacgat gctgccacag tncgcgagca caagtaattn aaagggccag 120  
 ggagtcggca acaagaactg gnaggagtna tcattcttaag ttagaagaag cagatcaaac 180  
 aagtcttatg ataaaaactt tattgtctta aatatcaaag gttttacaca tcacgttttc 240  
 ttcagaaagt tcctatttaa gaagaaaaat a 271

<210> 186  
 <211> 389  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(389)  
 <223> n = A,T,C or G

<400> 186  
 acaggccata attacttntt ggggaactct caatagggcg nacaggaatc atggctgggtt 60  
 ccatacaaga agcccgtgcc caancatgtg atgaagggaag agcggggggg ggtgtggccc 120  
 ttaccantgg caccatccga gnggccatgg nggaaaaanaa tggagagcgt gtcctcatgg 180  
 aggggaagct cactcacaan atcaacaccg anagctccct ctggaccttg accccggcag 240  
 gtgtgttttg gtgaatctga ncaagggttg cgagtactgg tggagtggcc atcctggagg 300  
 gggaaaagcc catcgacntc gacaanatca acaagggagc cctccatggc tactgnggat 360  
 gaagaggaac angcattcct ggacaaaaac 389

<210> 187  
 <211> 317  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(317)  
 <223> n = A,T,C or G

<400> 187  
 aaagagagca cctgtgagga ctgngttnaag agcnaaccce aggggggattc tgaccatttc 60  
 ttcccgcctc cagccatgga ggagggggca nccattcttg tcaccacaaa aacgggtgac 120  
 tacggcaagt caagtgtgcc aactgctttg caaagtgtca tggggatgga gaagccaact 180  
 cacactagat aatgagcttc ctaactgggtg tgaagctgct ttgagaacct tctgtcagga 240  
 gagctgggtg tttagatgtc gttaggatga ccgtttacca accaagaata cagttttttg 300

tcctttaaaaa aaaaaaa

317

<210> 188  
<211> 213  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(213)  
<223> n = A,T,C or G

<400> 188  
actgaggctc aaaggaatga ctcaattcca agtctttcca caaacctctc agcaaacact 60  
ccaacttant gaggcgcagc actggctcac atntagcatt ccancattct ggagatggag 120  
agaagagagt ccaaagggtt gacccagnc tcggcctcag gcccgagtac aaaggacagc 180  
cttaccanac caataaagct cacacgatga aaa 213

<210> 189  
<211> 621  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(621)  
<223> n = A,T,C or G

<400> 189  
tacttattgt ggaactatna caggacagac atnattgaan nagttattac cntgtagagn 60  
gtcnncnctgn tntnecgtgc gaccttgatc ttntttcact tgtacaagaa caaaggcagc 120  
tacgtnacct atgancctgc agaaggggag cccancgcca tcctncanat ggagactgac 180  
tcagccaagg gcagagagaa ggaagagtac ttcactaat gcttcccagg ctggaggggc 240  
caattcttgg ctccaacact aagccgctgc ctctgtagtt aggggaacgtt tgctctaaag 300  
ccaggggagt gcgttggtg atacaggcac atccactcac ctcccaggac acagccccc 360  
ataccggcat cactgactcc aggggtccaga gacatggaga aagctgttca tgatgctggg 420  
ccttgataag gacagtgtc gaaaccgacc accaaagagg ggccatgcct gagttggaag 480  
tgaggtcaca tgctggtcca ctttgncccc tccctattna cgaccaatag cccagtcag 540  
ngctatncag ncttttctgg aggcaggaca ccncaggagg ggggtcggac ccagggnagg 600  
gganagggag tctgaaaaag g 621

<210> 190  
<211> 431  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(431)  
<223> n = A,T,C or G

<400> 190  
ctgagcatcc agcgagcagc cttggtggtt ctggaaaatt actacaaagg acttcacat 60  
ctataacccg aacctcctaa cagcatccaa attccgagca gccaaagcaca tggctggcct 120  
gaaagtctac aatgtagatg ggcctantan taacgccact ggtcagtccc gagccatgat 180  
tgctgcagca gctcggcgca gagactccag ccacaacgag ntgnattatg aagaggccga 240  
acacgaacgc aggggtgaaga agcgganagc aagactggta gtggtgngg aggaagcctt 300  
catccatatc cancgtctcc aggctgagga gcaacanaag tctcctggag aggtgatgga 360  
ccccagagag gcagcccagg ccatcttccc ttcatgggcn ggggcacttg agaantacct 420  
tggggcacc a 431

<210> 191  
<211> 279

<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(279)  
<223> n = A,T,C or G

<400> 191  
gactgaggtg gttattggtg gcagaataaa tacttaatca atggagtga tgccaacaac 60  
accanaagtc caagatctct tttgttctgt gggcctgaat gtaacaacc ctcaactttct 120  
catcatgcag ggcagaatta ccgaaagtat taaatatgaa accaccagag atattatcca 180  
tgattgaaga agctgctgga accaggatgt atgagtacaa aaaaatagcc gccagaaaa 240  
ctatagaaaa aaaggaggct aagctgaaag aaataaaaa 279

<210> 192  
<211> 774  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(774)  
<223> n = A,T,C or G

<400> 192  
actgaatgac tgcctggagg agtcacagtc ggatatcagc ctcgagctcc ctctgagcca 60  
ggagacattt tcaggcttat ggaaactact tcctccagaa gatatacctgc catcacctca 120  
ctgcatggac gatctgttgc tgccccagga tgttgaggag ttttttgaag gcccaagtga 180  
agccctccga gtgtcaggag ctccatggcc cctgtcatct tttgtocctt ctcaaaaaac 240  
agtggccctt gccccagcca ctccatggcc cctgtcatct tttgtocctt ctcaaaaaac 300  
ttaccagggc aactatggct tccacctggg ctctcctgcag tctgggacag ccaagtctgt 360  
tatgtgcacg tactctcctc ccctcaataa gctattctgc cagctggcga agacgtgccc 420  
tgtgcagttg tgggtcagcg ccacacctcc agctgggagc cgtgtccgcg ccatggccat 480  
ctacaagaag tcacagcaca tgacggaggt cgtgagacgc tgccccacca tgagcgctgc 540  
tccgatgggt atggcctggc ttcttcccag catcttatnc ggggtggaang aaatttgatt 600  
cccagtatct ggaaagacag gcagactttt cgnacacccg tgggtggacct tatgagccac 660  
ccgangccgg ttntgagtat ccaccattca ctacaagtna atgtgnataa ctctgcatg 720  
gggggcatga accgccgact atcttacatc ntaccctgga aaattcaggg gaac 774

<210> 193  
<211> 279  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(279)  
<223> n = A,T,C or G

<400> 193  
agctgttcca ccatactcct cttncccca tccttaccag acggctgtgt acccagtga 60  
aagtgcctac cccagcaga gtccatacgc ccagcaaggc acgtactaca cacaacctct 120  
gtatgcagca cctcctcagc tcattcacca caccacggng gtgcagcca atggcatgcc 180  
agcaacagtc taccctgctc ccatccctt nntnctagag ncngcgggggt caccatgggn 240  
gatggctgct gggaccacga tggccatgtc agcaggtac 279

<210> 194  
<211> 485  
<212> DNA  
<213> Mus musculus

<220>

<221> misc\_feature  
 <222> (1)...(485)  
 <223> n = A,T,C or G

<400> 194  
 ctgaagcccc cggttgaggaga tngnncgacg tttttggaag tccataagaa ggtattttctt 60  
 caagcangcc taataggatg gcatctaata ttttcggacc aactgaagaa cctaaaaaca 120  
 tacccaagag gacaaatcct ccaggaggca aaggaagtgg gatctttgat gaatcgactc 180  
 ctgtgcaaac tgcacaacgt ttgaatccac ccgggggggaa gaccagtgc atattttgggt 240  
 ccccgatcac tgccactgcg cctctggcac acccaaacaa gcccaaggat catgttttgn 300  
 tgtgtgaagg tgaanactct aagtctgacc tgnaggctgc ancagactcc acacccagag 360  
 gagagcagag tgacaaagga agctcaaaag aagtagagca tgcnaagata ccggagccca 420  
 cacctacagt tgacagtcac gaacccagac tggggccacg acctcgctcc cacaacaaag 480  
 tcctg 485

<210> 195  
 <211> 464  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(464)  
 <223> n = A,T,C or G

<400> 195  
 tgggcctaca aatcatatgg ctncnactcc tgaccnanng cncagcccc antccccccc 60  
 tgagatttgt ggctgtgggc gactggggag ggtcccca a tgcccatc caccagccc 120  
 gggaaatggc caatgccaaa gagatcgcca gaaccgtgca gacgatgggc gctgacttca 180  
 tcatgtctct gggggacaat ttctacttca ctggagtgca cgatgccagc gacaagaggt 240  
 tccaggagac ctttgaggac gtgttctctg accgtgccct tcgcaacatc ccctgggatg 300  
 tgctggctgg aaaccatgat caccctggca acgtctctgc acagattgca tactctaaga 360  
 tctccaagcg ctggaacttc cccagccctt actaccgttt gcgcttnaaa attccacgta 420  
 caaacataac tgtggccatn tttatgctgg acacagtgat gctg 464

<210> 196  
 <211> 395  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(395)  
 <223> n = A,T,C or G

<400> 196  
 cctgacaatg agaaaagctc tagaagcagn ccaaagcata tacaactcat tntctngctn 60  
 nagtgggtna tgaagataga tgnanttncc tcgcacantn ngcncnaact nctggatatn 120  
 ncangcntcn naantgngga ggagggcgctc ntncatcaat cacatctcac aggtaccagc 180  
 ttgcaaagac ttctgggttc attttttagtc aaatagcagc atgtgtctta agcatagtca 240  
 tgcattgctt agtgaggagg atacatatct gctaagaaat gtcactagga gatgttactg 300  
 tgggttagag agcacctaca tagnctgcat ggtatataag tntaccact atttcctatg 360  
 gatattgtta agagngggaa atgcaagggtg catga 395

<210> 197  
 <211> 470  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(470)  
 <223> n = A,T,C or G



```
<400> 197
acatccattc ccggtacact gaacccttcc agtaggacgg aaatcctgca tttcatagac      60
aaggcaaaagc ggtcccacca gcttcctggg cacctgactc aggagcacga tgctgtgctc      120
agtctgtctg cctacaatgt caagttggcc tggagggacg gggaggacat tatcctcagg      180
gtgcccattc acngatatcg ctgctgtctc ctatgtcccg agatgatgct gcacacctgg      240
tggtcctgaa gacagcccag gacctaggca tctctcccag ccagagtctg tgtgcagaaa      300
gttctagagg cctcagcgca ggttccttgt cagaaagtgc agtggggccc agtagaggca      360
tggtgcctgg tcatcatggc cncagagagc aaggtcgccg cttgaagagc tgtgtccct      420
gctcagccng gtcttccaga tttgtttaca cggagtccac catcgacttt      470
```

```
<210> 198
<211> 489
<212> DNA
<213> Mus musculus
```

```
<400> 198
tgaggtcctg ccaccaagc catgtcttct aggcagcacc tgggctctgc tccgcctccc      60
tctaccactg atcaggatat gctctgggaa gtgggggctc aggcttcagg agaagccagg      120
actgctcttc ccaggaatgg ctgccagcac agtacagggtg gcaggcagga aggactacct      180
tgctctgctc cccctgaatg agagtgaact cgaagaacag ttcgtgaaag gacatggccc      240
agggggccag gccaccaaca agaccagcaa ttgtgtagtg ctcaaacacg tgccctccgg      300
cattgtggtc aagtgccacc aaacaagatc tgtggatcaa aacaggaaga tagctcggaa      360
agtcctccag gagaaagtgg atgttttcta caatggtgaa aacagccccg ttcacaaaaga      420
gaagctcgag gctgagagga gaaagcgaga gaggaagaaa agagcaaagg agactctaga      480
aaaaaaaaa                                     489
```

```
<210> 199
<211> 496
<212> DNA
<213> Mus musculus
```

```
<220>
<221> misc_feature
<222> (1)...(496)
<223> n = A,T,C or G
```

```
<400> 199
gactgaggac agtgtctacg tatatgtacc aaggntccaa ggangtagat gnccttgtgg      60
ctggaggcct caatgcctga tgtttctcct gattctgcaa cggagttgtg gaagacagaa      120
cctcaagatg caggagacca gggaggcaac acttgcatcc tcagggagga agccaggatg      180
ccccagtcaa ctgggggttg tttagggata gggttggagt cagcagagcc tacagccctg      240
ctcccaggc cagagaccct cccagagccg acagagcttc gtccacaaaa gcggaaaaag      300
ggcccagccc ccaaaatgct ggggaacgag ctgtgcagtg tctgtgggga caaagcctct      360
ggcttccatt acaacgtgct gagctgcgag ggctgcaagg gattcttccg ccgcagtgtc      420
atcaaggagg cacgctatgt ctgccacagc ggtggccact gcccocatgga cacctacatg      480
cggcggaaat gccagg                                     496
```

```
<210> 200
<211> 378
<212> DNA
<213> Mus musculus
```

```
<220>
<221> misc_feature
<222> (1)...(378)
<223> n = A,T,C or G
```

```
<400> 200
agcaaagtcg gcctcaaaaa cagagaaggc aagatggctt ctgaatcaga aactttgaac      60
cccagagctc gggctentnan ctntatnnnn ancatnnnn ngcctaggnc cgtnatcann      120
gtnngtgaga nnncccttgna tcttgagnag attanntgcc cnnatactag acaagggccca      180
gggctcagga agnnngagng gntggnncat ggctagcaan ggatgagggg gatctagtca      240
tccctgcgcc catccagcag ctggtgactg gacagtctgg cctcttcact cagtacaaca      300
```

tacagaagaa agccattgac cgttcgtgag ttccgcaaga tcgccaatag ctgacaatgc	360
actggtgttt tatctgct	378

<210> 201  
 <211> 385  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(385)  
 <223> n = A,T,C or G

<400> 201	
ctgtatatgg gcttgccctgg cccacccgag cagacttcgc agactctgga gaggccctaa	60
tgctacantn ctgactggtc tcaccagagg caactctnga atnttttacc gagagggtgct	120
gccaatccag caggcatgca gggcagaagt cgtgtttctc catggaaaag catttaattc	180
ccacacatgg gaacagctgg ggacattgca gctactgtca gagaggggct accgggctgt	240
ggccatcgac cttccaggtn ntgggaactc agccccttca gaggaggnga gcacagaggc	300
aggccgagtg gagtagctgg agagagtgtt ccaggacctc caggtgcaaa atactgngnt	360
ggtgagcccc tcaactgagtg gcaag	385

<210> 202  
 <211> 491  
 <212> DNA  
 <213> Mus musculus

<400> 202	
tgaggccttg tacagctcca tcaagaatga aaaattgcaa tggggccatag acgaggagga	60
gctgcgacgg tctctgtccg agttggccga tcctaacccc aaggtcatca agcgggtcag	120
cggaggcagt ggcagcagtt ccagcccctt cctggacctg actcctgagc ccggggcagc	180
tgtctacaag cacggggccc tgggtgcgaa ggtgcacgca gacctgact gcaggaagac	240
acctcgtggc aagcggggct ggaagagctt ccacgggatc ctcaagggca tgatcctcta	300
cctgcagaag gaggagtatc agcctgggaa ggctctttcc gaggcagagc tgaagaatgc	360
tatcagcatc caccacgccc tggctaccgg cgccagcgat tatagcaaga gaccacacgt	420
cttctacctg cgcacagctg actggcggggt cttcctcttc caggctccga gcctggagca	480
aatgcagtcc t	491

<210> 203  
 <211> 346  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(346)  
 <223> n = A,T,C or G

<400> 203	
tcaatgagaa gacagnactc tgcacttggc tgtgcattca cccccaagtg tatggaagcc	60
atntngaagc agctnctcaa ttctcctgcc atgtctctct gttcaggatg ttccctgccac	120
tgaacccgag cctggcatcc agcaagcgct agccaagagc ttagcagtga ccacttgtct	180
actcatcggg ggacggccat cagcctggag gtgaaccagg gagagtcttg actataggca	240
cggccccagc atcagtggga tcttggggga gactttgacc atcagcagag gaggtttggg	300
gggacaatgt tattaaaata aaatgaccct tgccaagaaa aaaaaa	346

<210> 204  
 <211> 177  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature

```

<222> (1)...(177)
<223> n = A,T,C or G

<400> 204
aaggctgaca agcaccanac ggnaaaggca gngaagaaac tctatggcat tgatanggcc      60
aaaggcgtac gtttagcagg cttctgacta tgacactctg actgngacaa gaatattggg      120
atcatctaaa cngagtccag ctggataatt ntaaataatac ttttcccct acaataa      177

<210> 205
<211> 230
<212> DNA
<213> Mus musculus

<400> 205
actgaggata tgctgtcatt ctgggctgtc gtaatatatt tctctgcaga agagtgggaa      60
tacctgggtc ctgctcagtg gaaattatac agggatgtga cattggagaa ttacaacaac      120
tttgtttttc tggatcttgt ttctctacg ccatacctgg tcagatttct ggagcaaata      180
caagagcctt cagatgtgaa gagtcaagca gacatctcta tgtactcagg      230

<210> 206
<211> 328
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

<400> 206
tgacaccatc aaaaccaacc ctgatgacag aagaatcatc atgtgtgcct ggaacccaaa      60
agatcttccc ctgatggcac tgcctccttg ccatgccctc tgtcagttct atgtggtgaa      120
tggggaactg tcttgccagc tttaccagag gtcaggagat atgggtcttg gcgtgccctt      180
caacattgcc ngctatgctc tgctcaccta catgattgca catatcacag gcctgcagcc      240
aggtgatttt gtccacactt tgggagatgc acatatntac cngantcata tagagnnggt      300
gaaaattcag ntacagcgag aaccaaga      328

<210> 207
<211> 385
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(385)
<223> n = A,T,C or G

<400> 207
actgagggtg agtctttcct gctagaagaa gaaggacaag gtgctgnaga aggnccgnccg      60
gatagnactg aagaaagaag tagtggagga ggaggagaat ggagctgngg aagangaata      120
cgaaactgca ctggatggag aggatgntga tnaaggnntt gaagacnatg atncagctan      180
gcggcgctct nntcatgncc cctgcccctt gggcttgtgt tttggntttc ccttcnngtn      240
ctggnggtgg nccggganca cacacatccc gcccccttcc tctgtctccc ctgctctggc      300
cctnccccag agctgtgacc cttgtccctt gacccancct ctentttcca tctctccttc      360
nctgctcctt ccccttctgc ctccg      385

<210> 208
<211> 185
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature

```

<222> (1)...(185)  
 <223> n = A,T,C or G

<400> 208  
 catgaggaat tggaaaaactc ttctgaggat tacctntcca gcctaagggtg tggggaccct 60  
 gaacatccag agngcttttc tagnctcaac attacgntgn ggcactttac cttgganggt 120  
 nagcaggngg nccnttgat ganattgtga aaacctcntg aaccttctag cagagggtgc 180  
 tcgaa 185

<210> 209  
 <211> 472  
 <212> DNA  
 <213> Mus musculus

<400> 209  
 cttgcttggc tegtccaggt gccaacagga ccctggttct gcaggaaatg tgaatctcag 60  
 gagcgtgcag ccagggtgag gtgtgagctg tgcccgcaca aagatggggc attgaagagg 120  
 actgacaatg gaggctgggc ccatgtggtg tgccgctctt acatcccga ggtgcagttc 180  
 gccaacgtgc tcacgatgga gcccatcgtt ctgcagtagc tgccctcatga tcgcttcaac 240  
 aagacctgtt acatctgtga ggaacagggc cgggagagca aagctgcctc gggagcctgc 300  
 atgacctgta accgccacgg atgccgacaa gctttccatg tcacctgtgc ccagatggct 360  
 ggcctgctgt gtgaggaaga agtcctggag gtggacaacg gtcaagtact gcggctactg 420  
 caaataccac tttcagcaag atgaagacat tcccggccac ttccagcggg gg 472

<210> 210  
 <211> 863  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(863)  
 <223> n = A,T,C or G

<400> 210  
 gatctgagtg tggctctgta caaacatttc ctttcccctc gcgatgggga gacctgctcc 60  
 ggtgcatcca gagaactccg catcctctgc tgtgatatag atccagtcct tgtggagagg 120  
 gctgaaagag actgtccctt ccctgaggct ttgaccttta tcaccttga catcatggat 180  
 caagagagca ggaaggttcc cttgagttct ttcttgagcc agtttgggcg ttccgttttt 240  
 gacatggtct tctgcatgtc agtaaccatg tggattcatc tgaaccacgg ggaccgtggt 300  
 ctgtgcgagt tcctggccca cgtctcctct ctctgcagct acctcctcgt ggagccacaa 360  
 ccctggaagt gttaccgggc agctgcaagg cgctgcgca agctgggact ccacagtttt 420  
 gatcaattcc gtcgctggc catccgaggt gacatggcca agcagatcgt gcggatcttg 480  
 acgcaggacc acgggatgga gttagcgtgc tgtttcggca acaccagttg ggaccgaagc 540  
 cttctgctct tcagagcaaa gcacacccac gagactangc aatccccgaa tcgtcaacaa 600  
 aaagagacac ngacagatta agaatncgaa aggccacggg acacacacca gtaaagagat 660  
 acccggggag cttttaacac cggagaaaac gagtttgat cccagagaca tcaggcaagc 720  
 ctttganaac tggcaagggg cttttggcna aaatgtcttg aaaccaagcc ggcttgaaaa 780  
 gggcnccagt ncccggttn cccctggttg gntttggnaa aaaacttncc cncgggnaa 840  
 atgaaattcc cccgggggac aaa 863

<210> 211  
 <211> 143  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(143)  
 <223> n = A,T,C or G

<400> 211  
 cagagactga ccagtgtgga cgtgcggaac acagnagact caccagtgtg gattaggacg 60

tgccctcttga ggtggtaact gctccgaaag gctccaaagc agtggttcaca aataaaattt	120
ttgggaatct ttaaaaaaaaa aaa	143

<210> 212  
 <211> 250  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(250)  
 <223> n = A,T,C or G

<400> 212	
aaaccttact ggaacctcac aggttatagg ctacaccttg cnaaaacccat tantatnnga	60
aagactttgt caaagntcaa gaagaaatga naggnatcgt aagtnatcat agcgnatgag	120
aaactctatn attttttctg agnggggggt anagcctttn cattgtccca ctcactctcca	180
aagngactat aagaagacnn ntnggagata agancncatn gaacattaac caactgtggg	240
taaagcgctt	250

<210> 213  
 <211> 399  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(399)  
 <223> n = A,T,C or G

<400> 213	
atggaccgag ccctctgcaa tacaaccgct gtttggaac ttcactttct tactgagcct	60
ggctgtctgc tacatgctcc ctgtggagtg gaacatccgc agacatttta aaggaacagc	120
tttgtgtccc accanagggt ctgaggactg aacacatgga ctcatacatc atacatgggt	180
aagctctccc atctatcacc tagcttcagg tttgtcagcc atctctccac atacacatta	240
agcatntgaa ataagacact gctgatattg gatgatagca aggttcagaa gacctggcag	300
aggatnttcg atgancttct gtcctcaagg aatcgantac aggacttcta cttgcagaaa	360
aggcaagaat ggctnattag ggaaaaagga tattcccaa	399

<210> 214  
 <211> 323  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(323)  
 <223> n = A,T,C or G

<400> 214	
atgaccgttt tgatgaanat gacaaagatg attctgnctg gntnttanac catgattatt	60
tggaaaacat gnatgggatg ntcaagangg tcantgccat anaaaggata gttgggtgggt	120
nccacacagg ccccanttnt gcacangagg ggatatccgc catcaatgaa ctcatagaaga	180
gatnetgccc caactcanta ttggtcatta tcnacngaa nccaanggac ctangacttc	240
ccaccgaanc ctacatcctc agtgnaggaa gctcatcgac tatggnacgc caacgtcaat	300
anacttttga gcatgtgact agc	323

<210> 215  
 <211> 416  
 <212> DNA  
 <213> Mus musculus

<220>

<221> misc\_feature  
 <222> (1)...(416)  
 <223> n = A,T,C or G

<400> 215  
 cccagtcacg ttaaagttag gtggacactt gtacaccgac atcgcttacc acagttgaca 60  
 cgctacccgg attctatgct tggagctatg tttgggggtg acttccccac agcccgagac 120  
 cctcaaggca attacttcat tgatcgagac ggaccgctct tccgctatgt ccttaacttc 180  
 ctacggactt cagaactgac actccccctg gactttaagg agtttgatct gcttcggaaa 240  
 gaggctgatt tctaccagat cgaacccttg attcagtgtc tcaatgaccc caggcctctg 300  
 tatectatgg atacttttga agaagtcgta nagctgtcta gcaactcgaa gctttctaaa 360  
 tattccaatc cggggggcgg catcatcncc cantttaacc attcaccccc gaaagg 416

<210> 216  
 <211> 317  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(317)  
 <223> n = A,T,C or G

<400> 216  
 gatgactgcc tgcctttnac cttggagacn gtgtacagct ggnanctgna agcctgggat 60  
 gaggatctgc aggaggtcct gtcctcagat gaaattgggg gcacctatat ctcaccccca 120  
 ggaaacgaag aggaagaatc aaaaaccttc actactcttg accctgogtc cctagcttgg 180  
 ctgacagagg agccagggcc aacagaggtc acacgcacat cccaaagccc tcgctctcca 240  
 gattccagtc agagttctat ggcccaggag gaagaggagg aagagcaagg aagaactagg 300  
 aaacggtaaa cagagtg 317

<210> 217  
 <211> 235  
 <212> DNA  
 <213> Mus musculus

<400> 217  
 acacgaatag catagtcatc tggaagagaa gaaacaccag tcaactccctt cgaggagtct 60  
 actgaggaag aaagagaaca ggaggaggcg gctgctctca aaatccagtc cctcttccgg 120  
 ggacacgtgg ctagagaaga ggtaaagaag atgaagtcag ataagaatga gaatctgaaa 180  
 gaagaggcag acaatctgag accacagggt ttacaccccc gaaacatgaa aagta 235

<210> 218  
 <211> 355  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(355)  
 <223> n = A,T,C or G

<400> 218  
 acaacgttcg tgcggnctcg tnaagggttg tngctggcc ctatgacang gatgaatggc 60  
 cagtcaacaa aagtgagcat ctttctctgt ctttcacatt cttccttcat ggagagagta 120  
 accgtgtgca caagtgtgga gatagctcag caccagccga tctatttgat caacgaggac 180  
 gggctgtaaa ctatgatatt gtaatcttta ccacttggga ttgcttcctc tcagagttca 240  
 ccagaacttt gaatttctct ctctctctct ctttttttaa tgggctgttt ttactgcagg 300  
 ggcttttctt ccctagaaaac ccaactctac gcagaaaaag tgaaaaggaa aaaaa 355

<210> 219  
 <211> 120  
 <212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(120)

<223> n = A,T,C or G

<400> 219

ttggttccac	gtacgtcagn	tctgctcatt	atcantgacg	gcggnatctg	cgacgtgaca	60
cataccatag	angccatcgt	nagtgccttc	tcactgcca	tgtactatca	ttattgtcgg	120

<210> 220

<211> 265

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(265)

<223> n = A,T,C or G

<400> 220

gggagcagat	ggactatgga	ctacagttta	cctcctcgcg	aaagtccctc	agcatctctc	60
ctattgnact	ttacctcctg	gccagcttct	acaccaagtn	cgatgctgct	cacttcctca	120
tcaacactgc	ctcgctgctc	agcgtgctgc	tgcctnngct	accccagttc	catgggggtnc	180
gactcttttg	aatcaacaaa	tactaaanga	nggttggtta	gttctgcagg	cattgaggga	240
aggcactgga	actaagatat	aatgt				265

<210> 221

<211> 375

<212> DNA

<213> Mus musculus

<400> 221

gactgagcct	ccctgctgga	gagggagcac	ccccccacc	ccccagggcc	tggagcctac	60
ctgccagcat	cctgggagat	ggtaacagac	acgtccagtc	ccagtgtggt	cacccttttg	120
cacacggcgt	ccatgtcgat	gatggagtcg	atgctctcgg	gaccatcctc	cacgcagcac	180
tgagagcccg	ggcagaaccg	gcaattatcc	agtcctttgt	aacccttggt	gtgcccacat	240
ttttccagcg	tactgtggt	ggccatgccc	gacaccccaa	catgcactac	gagctgggga	300
caagagacaa	ttgggggacg	gttagcagga	gcagcaccca	cccatacatc	gtgagatgcc	360
aggacttgga	aggtg					375

<210> 222

<211> 102

<212> DNA

<213> Mus musculus

<400> 222

acctagcaga	tgtcacacag	acgataaata	gcaaagatgg	aagtcttcat	gccggaggca	60
atcctataag	acagctgagt	tctgcagagc	tggagacaga	ct		102

<210> 223

<211> 498

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 223

ttcctctctc	gttcaaatcc	tgtagtgca	atgatcaaan	tctgtngacc	cacatnatcc	60
------------	------------	-----------	------------	------------	------------	----

gcctagtgtg	caacgaggtg	acnacactga	cggnanaccc	acctganggg	attananact	120
tccgcaatga	tgaggtatct	ncacagacct	gcaggttacc	atcgagggcc	ctgatangga	180
ctncctatgc	tggaggtctg	ttccgtatga	aagctcctac	tggggaagga	ctnccttgcc	240
ccccaccca	agggtactt	cctgactaaa	anattccacc	caantgggtg	gcccccaatt	300
ggccgagatc	ntgntgncca	natgtgcttc	aannnagngg	acctgngann	ggnnctgnaa	360
tctggggctt	taccnaatat	agtagcctng	gttgcnccaa	tnaaangngn	ccttgggtctg	420
gatnccacc	ccttaaacc	cannaanttc	tggnannttc	aattagaaan	gaagggcaaa	480
ggcccgccct	ttgccttt					498

<210> 224  
 <211> 502  
 <212> DNA  
 <213> Mus musculus  
 <220>  
 <221> misc\_feature  
 <222> (1)...(502)  
 <223> n = A,T,C or G

<400> 224						
agactgagaa	tgctcgtgat	tcctgtccct	tggattgtaa	ggtttatgta	ggtaatcttg	60
gaaataatgg	aaacaagact	gaattagaac	gggcttttgg	ctattatgga	ccactcagaa	120
gtgtgtgggt	tgctcgaaac	cctcctggct	ttgctttcgt	cgaatttgag	gatccccgag	180
atgctgctga	tgctgtccgg	gaactagatg	gaagaacact	gtgtggctgc	cgtgtaagag	240
tggaactgtc	gaatggtgaa	aagagaagtc	ggaatcgtgg	gccgcctccc	tcttgggggtc	300
gtcgtcctcg	agatgattac	cgcaggagga	gtcctccacc	tcgggcgaga	tcaccaagaa	360
ggagaagctt	ttcccgaagc	cggagcaggt	cactttctag	agataggaga	aaaaaaaggt	420
ctcttgtctc	gtgagagaaa	tcacaagccc	gctcgatcct	tctcttaggc	tcgnaaccga	480
tctanggcc	atgaaaggga	at				502

<210> 225  
 <211> 556  
 <212> DNA  
 <213> Mus musculus  
 <220>  
 <221> misc\_feature  
 <222> (1)...(556)  
 <223> n = A,T,C or G

<400> 225						
tgccgctggt	cctcctgctg	agagccctga	gctattcnan	agatgacact	gnntgcngct	60
gtnggaccnc	cgcagccacn	ctctnnccgg	tcggcnctcc	ctccttggac	ngnnattnta	120
tgaataaaca	tcnnaaccag	tactatcagg	ccagcgggtc	aaaacccgga	aaagggatga	180
agaaaagaat	ttcnaaccga	cncctttncag	ggatacactt	gtccaggggc	ttantnaacc	240
tggtgataac	cttgaanctg	tagccaaatt	tttggattct	actggctcac	nattagatta	300
ccgtcgctat	gcaaacacac	tctttgatat	cctgggtggc	ggcagtatgc	ttgcccctgg	360
aggaacacnc	ntnnacaatg	gtgacnagga	ccaagatgac	cancactgt	gtgttttcag	420
caaataaaaa	tcataaaacc	atccgaaact	atgctcaggt	cttcaataaa	ctcatcaggg	480
agatacaatt	tatttggaag	aggcatttga	anatgaaatg	aaaaaacttc	tcctcttcct	540
taaaagcattt	tctgaa					556

<210> 226  
 <211> 198  
 <212> DNA  
 <213> Mus musculus  
 <220>  
 <221> misc\_feature  
 <222> (1)...(198)  
 <223> n = A,T,C or G

<400> 226



aacgacgaaa	catcancaga	actttattga	gantggattc	tgagactann	catgacactg	60
angaggcacn	gcaagtgact	cctncaatga	cnagntccan	gagatccatn	ngcaanaatc	120
tatgggnggg	ccggggggccc	cagtcenntt	catgcaggat	ntatctgcga	ctttcagaan	180
ntggggaggc	tgacattg					198

<210> 227  
 <211> 446  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(446)  
 <223> n = A,T,C or G

<400> 227						
agtctgagct	ttgacgactt	cctggacctt	ctgagtcggt	ttcannngaca	naggaacccc	60
nnacatgang	ccncactatg	ncttncgnat	cttngactnn	tnngacnatg	gaccnttgga	120
cagagaagac	ctgagccntc	ttgagaatct	gcctcacagg	agagagggcg	aggacactng	180
gctaanacgc	ttctgagatg	aacccagntg	attagacaat	nncctggaag	agtaanacat	240
ctgacagggg	tgggaccatc	tatnttncg	aggtccaaca	tgtgatctcg	cgctcaccag	300
actttgccag	ntnctttaag	atngtntctg	gatgtctttn	aagnnccaac	atgcctggcc	360
aaggacctgg	ccactgctga	gatgtggcca	aggttatgcc	tgcggtgnca	ggncnctg	420
cggcccagnc	tggagagggc	gctgga				446

<210> 228  
 <211> 354  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(354)  
 <223> n = A,T,C or G

<400> 228						
ccccactgtt	tcagggatgt	acacgatcgg	agacattgtc	cacagttggn	gagtgcactg	60
cccctgagca	ggactgtgcg	atnnactgtg	ctcanggtcc	ccaaggctgc	tgggcnanga	120
agncgnntca	gaantnctaa	ggggactctg	gccaatgnnc	tagancaant	naagtntttt	180
tccaacgtnt	aaaaacacat	anaanaccnc	cagcctatgn	cccncttctg	ctcccggatc	240
acgtcctgtc	ggtaacatta	gccacagtcc	aaagatggca	cagccaagga	tggagccaag	300
tctccacacc	aaaatctatg	atggcccacg	tctgactcaa	gttaaaaaaa	aaaa	354

<210> 229  
 <211> 186  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(186)  
 <223> n = A,T,C or G

<400> 229						
gttgccagtg	ttgctgattg	ngatacaaga	tnгнаaggag	ccngggtnnt	ncattggana	60
ggctcttctc	cctggagcat	cccggcttct	atcttacaag	atgcttgnat	acagncttct	120
gataaagatc	tggaacgcct	ttcnggntgc	tntataggag	ggaanttctg	ttatattgga	180
gaacac						186

<210> 230  
 <211> 665  
 <212> DNA  
 <213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(665)
<223> n = A,T,C or G

<400> 230
agcaagctgc acatggaagg gttccgaagc ctcaaggagg gtgaggcggg ggagttcacc      60
tttaagaagt ctgccaaggg tctggaatcc atccgtgtca ctggccctgg tgggtgtgttc      120
tgtattggaa gtgagcggcg gccaaagggg aagaacatgc agaagcgaag atccaaagga      180
gacaggtgct acaactgcgg tgggctagac catcatgcca aggaatgcaa gctgccaccc      240
cagcccaaga agtgccactt ttgccaagc atcaaccata tgggtggcctc gtgtccactg      300
aaggccccagc agggccccag ttctcagga aagcctgnct acttccngna ggaataggaa      360
gagatccaca gccntgncct gctccnagaa ncccagaatt gangcccagg agtcagggtt      420
attctttgct natggggagt ttaangaaag aggcataaat ctgnacagtg ntnaangtgt      480
nngtaanggt nggntttgcn tggnttancn ttngnctgnc gagnctnnnn gccggncttc      540
ccaacgtcat cctgctttcc ttnaagntan tgaaaggatt aggcnaatgg aactctaccc      600
nactnttnnc tgaagcnagc gaagcttttn tgngggaggga accncccttg aacccccgagg      660
ctttt                                         665

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<210> 231
<211> 105
<212> DNA
<213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(105)
<223> n = A,T,C or G

<400> 231
tagtctggaa ccacgccgng ggaggatcta cagaaatatt gctggcgcag acacatttcc      60
agttgtctga ggtggccagg acattactcc cgtgcgcctt accca                      105

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<210> 232
<211> 199
<212> DNA
<213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(199)
<223> n = A,T,C or G

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<400> 232
accatttttg atttttgtac ccatataaag tctctgaaac tcaagtcaag gaatcttctg      60
aagacaaaca acagttttcc tccaactgga ccatgtaatt taaagctgaa cggcagtcag      120
caagtactgg ttgancacag ttatgccttt aggaacccta tggaggcgaa aaaaaggata      180
attaaactag aaaaggaaa                                         199

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<210> 233
<211> 530
<212> DNA
<213> Mus musculus

```

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<220>
<221> misc_feature
<222> (1)...(530)
<223> n = A,T,C or G

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<400> 233
ggatcatgaa gtgatataca gtcatnttca gggaccatta nagggtncta tagaaccagc      60
tactccaact gaagtcgtca gcaatggggc acctctncag cctgnccctg ctgaactggc      120
caatagccaa gngggagcac atgttcagcc tgccccgtnt gaagtgggtca gcagccaana      180

```

tggactgnnc	actctacagc	ctctgncacc	agcatncatt	gatttgacgg	aggaagtaca	240
gccctcagaa	gaaaatatgg	aggttgtcaa	tcctggaact	tcagaggagc	ctagtcaggg	300
atctgggtgct	aacccaaccg	ccggagctgc	tagatccgtt	tcaatgaaca	acttcatcag	360
cnggctgcag	aggcttcata	acatgctgga	attgctgana	cctccacctg	cagaccacag	420
tgtggggcca	ntaanancaa	ggaggaggat	ggcacccatt	ttgagggcca	gagctggaga	480
gtctcanagg	caagacaatg	gcaggatatgt	gccacataca	ccactatatg		530

<210> 234  
 <211> 281  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(281)  
 <223> n = A,T,C or G

<400> 234	
gaactgagag	aagaaganaa
caaaggacca	gtgttcaaag
caaaagttaa	tttgaggagaa
agaaaacttt	acagaataga
ccaaactccc	cagctccccc
	tnttcaagta
	gactcaaaaa
	a
	60
	120
	180
	240
	281

<210> 235  
 <211> 353  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(353)  
 <223> n = A,T,C or G

<400> 235	
tgagtttgtg	agggactgca
cccattgaag	accatgaagg
ctggaagtgt	tgatgctaaa
ngatgactct	ncgacattgg
gtgtgtggat	catggtaaac
actngtcatt	gcactctttt
	gttgacnccc
	agnctttgct
	gtattacatt
	aaa
	60
	120
	180
	240
	300
	353

<210> 236  
 <211> 448  
 <212> DNA  
 <213> Mus musculus

<400> 236	
gactgagaga	tgttatgaac
cctttccaat	cccaaatttg
tgaactgttt	gggaaaaaag
acttaaagag	tcatgtgtgt
atgatgaagc	cattaagtgc
tcttaagaga	tctttcctta
caagatacca	gttgcttcag
ttgcttacca	tttattagaa
	gactatga
	60
	120
	180
	240
	300
	360
	420
	448

<210> 237  
 <211> 227  
 <212> DNA  
 <213> Mus musculus

<220>

<221> misc\_feature  
 <222> (1)...(227)  
 <223> n = A,T,C or G

<400> 237  
 gaggcctcag cagttctacc tgtcatcana tcaggagcat cagtgttgct gccgcgttga 60  
 atgagnatgg ctgcaaagct attctcatca aatgatgtcc cattcaccac agggaggtct 120  
 tcaaaggggt ttacagactg gtctgaagac acagtgatgt actggacggc cagccagagt 180  
 gcagtgtctgc cttcgtgatn tttcagctct aaatctaata tgaaata 227

<210> 238  
 <211> 539  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(539)  
 <223> n = A,T,C or G

<400> 238  
 gaaagaagct gacgacagaa gggctgagga cctgggcacn accacttacc gaccacttcg 60  
 tngnctggct gaaagancgt taccttcctg ccaactaaag agcagaaata gtctacagat 120  
 aaggaaaact gaagtaaaat ggcctcataa tcaatncatc ctttggtacc aagatatgta 180  
 cacacggaca gctctcagac ggaatcctag ctgcatagag tgctcatcct gccaaatnag 240  
 cccaggtctt gctcactagt gattccacac actagcaatt ccacatggta ggtcatcatt 300  
 gcccttnttg aactcaagtg caagtgtgta tgtgagctca cctggctatg ccatgtatct 360  
 tactcataaa cctcttccca tcgccctgag gccaaactgt tatcacctcc tgctgacttc 420  
 ctttcctcac tattgcttcc gtcggtcagt ccctcttctg tcatcaactgt ttagcttatg 480  
 gactttgntg nngggagccg cgccacatt tcgncgntac aagatggcgc tgacagctg 539

<210> 239  
 <211> 135  
 <212> DNA  
 <213> Mus musculus

<400> 239  
 gactgagagg cttctcgaga gacgaatgct gttctgtgcc tgatgaaagg cttgaaactg 60  
 acgagcggaa aagaaatttg ttctattcct aaatggggac aaataaatga taaatatctt 120  
 ttctaaaaaa aaaaa 135

<210> 240  
 <211> 486  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(486)  
 <223> n = A,T,C or G

<400> 240  
 caggtaggcc tgccaaacgt atangtganc cccctgtncn natgatgggn ttcctgngag 60  
 ggagagnccg gtgaccgaca tgcctantga gcctggcact natggtgctg aatcccggnc 120  
 tggtgcctg nggatcagca gacaattggg gccgtgggcg agtctctggt acgcctcatt 180  
 aacgaccgag gagacggaga agggtagcga ttatggttta gggctagatg cagccgtang 240  
 ggccaccgta taccagggtca gaagccaaac gaaangtcaa acaccagcg ggcaagctcg 300  
 cgacgcgcct cagcaacgac accgccaagn tctcgtggga ggagcgcgac tggcggcact 360  
 ctgcgagaaa gtggaagctc ccgcaagcag gcggggggcg tgaccgnaag aaggtgtatt 420  
 tcaaagtggg taatagatgg ttttctcacc caataaaant gcaatttatc ctctaaaaa 480  
 aaaaaa 486

<210> 241

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<211> 154
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(154)
<223> n = A,T,C or G

<400> 241
tgatttacct actgaggacc cttagatcct gtggatacct ganaattgat tcatctgtnt      60
gtagctgagg cttggcacct gcaagctttn cctctcctgg catttcacca agcccccgag      120
ctcacagggc tctggctccc ctgaagtcct ggg      154

<210> 242
<211> 375
<212> DNA
<213> Mus musculus

<400> 242
agaagtgttt ctattttgag tgtcgaacac aacactcgaa agcgggtcac aagcaggagc      60
ccggattagg gtttagtttt ggtatgtgtc cctccctttg acttgaagggt ctgcctgggc      120
tgtgtctgta acatgatgtc tgttgatgag tggagcagac acctgcccac agttggctcc      180
tggtaaactcc cgtctgctgg actgcgttgc cttcttccgt atgctctccc gaaaactgcg      240
ttgccttctt ctgtatgtc tccgaaacac tcaagtgttc tcaggcggcc tctatgggtg      300
cctttctctt ctttcccaaa tggtagccca aataaatgaa tatatatgaa tcgttttcaa      360
cctacaaaaa aaaaa      375

<210> 243
<211> 153
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(153)
<223> n = A,T,C or G

<400> 243
gcctctggga tctcttcctc cttcnngnag cggactgacc acagcaggat cttcttctca      60
aaatctgtgg gcttgtgcag cnggcacccc gtgtctgtna gactctgtgg ggaaaacagg      120
aatctggctt gagactttaa tgctcaaatc aag      153

<210> 244
<211> 239
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(239)
<223> n = A,T,C or G

<400> 244
aaaatgccat aagtcctgtg ccatnaagaa tatgctngac ctncctttgag aaaaccaacg      60
agatgcgttc tgaacttcaa caatcatgtc catgngtgct ggctgcaaca gatgagttag      120
cggctttcat ncaccagtac ccgcaccttg gnggnntgaa acnnngatct ggacagcatt      180
ttncaaagga tcaagacact nnaggggaaa ctaatnccag ncagcactcc ataggcctt      239

<210> 245
<211> 174
<212> DNA
<213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(174)
<223> n = A,T,C or G

<400> 245
gaaaagattg aggaagtgtt tcacgtggaa ccccaactac agagactctt ttataggggc      60
aaacagatgg aggatggcca cacactcttc gattatgatg tgcagcctca atgacacaat      120
ccagctgctc gtgcgcnggg nggntggcac tgccctctcag tacaaaaaaa caaa          174

<210> 246
<211> 245
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(245)
<223> n = A,T,C or G

<400> 246
cccgaacctg ccaatnctac tttggcttca gtggatggtc gaaaaggatc atcaagggca      60
gtcctcgttt cttatgaaga ggaagacagc tcacaagctt gncttccaag gcgggctgta      120
ntcagatgcc ttccagatgc gtgaccantc ngnggntctg gaaagtggna ggntcgcggt      180
ggagtacagg cccacgggng angatntana tgccagaaaag naaagaagag ctgcgagaat      240
ttaat                                          245

<210> 247
<211> 176
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(176)
<223> n = A,T,C or G

<400> 247
tgcccactca ctccattctc annacctctc ttcctcatgn nnatgaatca ggatggnaag      60
ttctnagnct acatgctcta gcatcatacc tgnctgncag atgccgngct ccctgncatg      120
atgntcntga actcaccctt taaaactgna agccctcnat aaagcctttc ttctac          176

<210> 248
<211> 399
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(399)
<223> n = A,T,C or G

<400> 248
cttgtctctg tgtagtagcc caaatcctaa tctccagtga aaccctccac atgcatgata      60
ttgggtctcca gcagctctgg aactgcccg tcaccgacac ctacctgatg tcaggactgt      120
cccgactctg gggaggtatg acatctttac gtggaagtca gttcccaaag gaactattca      180
gaagctagct cactgaagga gaccaagaac aagctggagt tgatccccctc actctgggta      240
aggtgcacct tggtttggtg cactcacaatg gtgttcacag ccattttacaa ctccagttnc      300
aaaggatcta acaccctttt ctgacctctc tggncatcag gcatgcatgt ggtgcacaga      360
cttacatgta ggcaagacac ataaaataaa aatgaagag                                     399

<210> 249
<211> 127

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<212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(127)  
 <223> n = A,T,C or G  
  
 <400> 249  
 ccattccatga aagctctgag acagagactg ggtccangag tacattagca gccgnatngt 60  
 ntggangngg tcaganggtg tgntatattg aaggtnttcg ganntattat atctaggggg 120  
 ggggaga 127  
  
 <210> 250  
 <211> 411  
 <212> DNA  
 <213> Mus musculus  
  
 <400> 250  
 gatgctgact gcagggatgg aggaactttt tccactgcag aagaacaatg tgggtgcctat 60  
 gggaacatgc catgtgacca ttctccattc ctcccagcaa ggcacgctgg gtgatgtgaa 120  
 gaaccagga aggaaagctg gaggagagca tgggtgggtgg cagagcggga tttggggaag 180  
 ccctgagccc tgctccatct gaccctcagt acatctgtct ccgtcactgt ctacctgcc 240  
 tgctcacgcg tgccccctcac tcaccccacg gcaacaggcc tatctttccc ccaacatcaa 300  
 aagagctatt tcagcgactg tcgctgtacc tggcccatag cctctagtct atatatgtct 360  
 gtcaaatagaa ttggctataa acatgaaaag gtttctcctg aaaaaaaaaa a 411  
  
 <210> 251  
 <211> 144  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(144)  
 <223> n = A,T,C or G  
  
 <400> 251  
 catatgagag cggagccttg cangnacctg gattcagang aataccacnn ccgctatggn 60  
 tctngnctg tattgggctg antacctgcc agnatccaca gagtggttg tgncaccaca 120  
 gcaggaccca aaagacatgt attg 144  
  
 <210> 252  
 <211> 244  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(244)  
 <223> n = A,T,C or G  
  
 <400> 252  
 catggcggca tacaancatg tgggtancgag atctgacgcc ctcttggtgga gngtctgaag 60  
 tcaactacng ttgtacttat gtataatant naatnnttct tttnnanaaa gttgacaaag 120  
 aatcnctana gcagcctcgg ccatncacag acagnctcgc gtttttctcc tactntgtgc 180  
 ttatgctntt aaatggcaga ctcgacgggg cngnggtggc ngcacgcctt ttaatccctg 240  
 cact 244  
  
 <210> 253  
 <211> 211  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(211)  
 <223> n = A,T,C or G

<400> 253  
 gaactgagat gacaacctga gaaagctaata tttaaaaaat gatgccgggt agcaagcata 60  
 atagtaacag aattgtgctg ttttctggta tccccacccc catttgaacg gcgtgtttctc 120  
 gatgtcgcta caagtttgtt caaatgacag atgnaactna aaangctgtt actgctattg 180  
 atgaataaca tactactctc aaaaaaaaaa a 211

<210> 254  
 <211> 216  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(216)  
 <223> n = A,T,C or G

<400> 254  
 caccctcaac cactggtgat aagccngntg tgttncncnc atctcaagac ttgctctgca 60  
 atgtcggaca cctcggccaa gccttgatta tcaaggagag actggaagat aaacagaggt 120  
 caaaaagccc acttgattag ggagttagga tctggtacca ctgcagctgg tgaggagaga 180  
 gagcaagaga tggaaaaang ggagcttacc taagaa 216

<210> 255  
 <211> 278  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(278)  
 <223> n = A,T,C or G

<400> 255  
 aagacttgct ggacgtggag gaaattgtca gcgtccgtgg ctncagcctg gaggagaagc 60  
 tacgtagcca gttataccag ggggacttcg tgcattgctat ggaaggcaaa gattttaact 120  
 atgagtaccg tacagagaga agctntcagg gtccccctgg tttttcggga caaggatgga 180  
 ctagggatca agatgccaga cnttgatttc acagtccgag acgtcaaact cctggtgggt 240  
 aagtgccaa ggccgggtag gagaagggaa gggaggct 278

<210> 256  
 <211> 178  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(178)  
 <223> n = A,T,C or G

<400> 256  
 cactggacac gagctcgcat aatcagaaag gctttatcca gaggacttct aactgatga 60  
 tgatgaagga atgttatcag acatgggccc agcctggagc ngtgaagccg gaaccagtt 120  
 acacagattn agncctnatg anagtccagg tcngaaaaga gttcccgtgc cttacgt 178

<210> 257  
 <211> 270  
 <212> DNA  
 <213> Mus musculus



<220>  
 <221> misc\_feature  
 <222> (1)...(270)  
 <223> n = A,T,C or G

<400> 257  
 cggcccaccg tgcgccccag actgaanaag actgncanaa actatgacca atcannagagc 60  
 agcatcaacg gacatctatc caatnggnac gtgctaggnc ggtacctacn gaacaagacg 120  
 gncgginctca cctgtnttnc tacggtggga ttgagaggta nccgcatagt gcgacactag 180  
 aacnanncaa aaggncgcag cacaagttac gcccactacg ggggtgtatgn tgggaaaggg 240  
 cgctgcgca gaggtgctct cctggatctg 270

<210> 258  
 <211> 261  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(261)  
 <223> n = A,T,C or G

<400> 258  
 aatccggtac gaatttttnag ggctcatggc cgggccggcc gttcatcatc ttgaggcagg 60  
 ttccacgaga ggtttgacct cgactccaac tataggaaaa acaacgactc caaacgccgt 120  
 gaccgagcta cgtctctnct ccgcgctcta ggctgaaggc cattccgacc tgctattnta 180  
 ggagacatnn aaacctatg ctgcctcaaa ctcaaacttg cagcaatcct cctgccttca 240  
 gcttcccccc acccaccgtg c 261

<210> 259  
 <211> 407  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(407)  
 <223> n = A,T,C or G

<400> 259  
 ctgcggtggc acctggggccc tggcngtctn tacntattgt ggaacnatnn ctgngcaggc 60  
 nntncngngt acataacctg ngtnaattcc aatgcgcatg cngcagggtg tcttggaggc 120  
 ctatggcggg atgctngaag gagccgtaca gcatngagca nngcnagngc cnttcgggnt 180  
 acctatngga ncatggagct ggccattcct cactgggagc cctgagaccn ccatgtangc 240  
 ancnncaatg gtctctacct gcggggcggg ggagaaatna ggacnagctt tgccctgcgtt 300  
 ggancnnaca gnataanagc agngctntgt gccattcggg ctacctctcg ggcattggagc 360  
 tgnccattcc tcactgggag ccctgatacc accatgtaag catcacc 407

<210> 260  
 <211> 196  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(196)  
 <223> n = A,T,C or G

<400> 260  
 gggttacggc catatggaca nctcaagcgc ctgctagaag cagccagttc tgggtaggcc 60  
 acaggggact cagcatcctg acaacagcag ttcacctttc caaaagggaa ggtaactctg 120  
 aagccgccat tcacatccgg acccaggtg ctccctttccc ttacaacgga gccactttcc 180  
 cctccaaaaa aaaaaa 196

<210> 261  
 <211> 268  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(268)  
 <223> n = A,T,C or G

<400> 261							
actgagccca	ggagactcat	tggaggaagg	tgtatatcca	agagcaaatt	gaccagaagg		60
actcttccat	tactgaagct	ggncatggna	ctcatcagga	gtgcaggttc	tttgtgaatc		120
acccacgctc	caggtgagat	ttttaatttg	tatagttagc	tataaactgc	ccaagggact		180
tcctggatgat	gtaactgcct	ttgagtcacc	cgtgtacct	taagtggcct	caataaannc		240
aatggttcac	caagctgaaa	aaaaaaaa					268

<210> 262  
 <211> 324  
 <212> DNA  
 <213> Mus musculus

<400> 262							
cttctcacc	atgaagggag	ggcatgtggg	gcaggaacca	gagacctcct	gcagggtcaag		60
tgcagacaca	gagcaggtca	acttcctcag	ccacctcag	cacctagaga	agccctagct		120
ccatgcagga	cgaagagcct	aactccccac	ctcatgcctg	tcaccaagac	tggcctcttc		180
tctgtccttc	cacctcttta	tgcaaggcag	tgggtgtctg	tcagccctgg	gcgtactctg		240
tcctcacagg	ccctgcactt	tagggccctg	gtgtcatgac	ctgtggaaga	agaaggttgt		300
agttggtagt	ttccagattc	ctgc					324

<210> 263  
 <211> 298  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(298)  
 <223> n = A,T,C or G

<400> 263							
tgaggtatta	tggctnaggt	ctgtctgttc	ctganccggt	ggaaaactgc	cgaantttgn		60
natcngtgna	gcggnagtgg	caggnccttg	tatgngctta	nccaactgtn	tgntgagaag		120
ggacatgtca	ccggaatana	catgactgan	gtccaggtcc	aagngtctaa	aacctatntt		180
gaacaccaca	tggaaaaatt	tnggtttcca	ggcacccaat	gtgacttttt	ctccacggnc		240
gcacgcagaa	gttgnccagan	gctgggatcc	agagngagag	ctatgatatt	gtcatgtg		298

<210> 264  
 <211> 215  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(215)  
 <223> n = A,T,C or G

<400> 264							
actgcccttt	gagaataaaa	tgggaggcca	caaccaaagt	cttttgata	aagcaccaca		60
atggacaatg	naaggnagnc	tgcttactc	tnactncttn	nnaaggcaca	ganctttgcc		120
attatggtaa	agancctcan	ttctaactctg	tttctctctg	ctctccttcc	cgagggacag		180
aatctttacc	agnntnggaa	agacctccct	aactc				215

<210> 265  
 <211> 287  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(287)  
 <223> n = A,T,C or G

<400> 265  
 gctcgcatc aactgtgatg agcccatgta tgtcaagctg gnggnggcac tttntgctga 60  
 gcaccngatc aacctgatac aagggtgatg acagacannt aaactaccgt gaatgggnag 120  
 gcctctgtac antctnatcg angagggcnn accacaggca angtggttgn ttgcnnngtng 180  
 ccntanttg ttaangacta tggcanngan tttcaggcca nggatgtcat acgaggaata 240  
 ctncaagtgc nggaaataaa taaatttttg gctgaaaaag agaaaaa 287

<210> 266  
 <211> 170  
 <212> DNA  
 <213> Mus musculus

<400> 266  
 gactgagttc ctgctgagc agtgctggat ggcggcttca tctacttgat catgctgcgg 60  
 cgcttcaagc agaaagccca cctgacttac aatggcaaca gtggcaacag ctcagaacct 120  
 ggagagacac cgaccttga gctgggtgac cagacttcca aaaaaaaaaa 170

<210> 267  
 <211> 258  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(258)  
 <223> n = A,T,C or G

<400> 267  
 gactgagacg ttcctctgct ggagactggt gagcttcagg gacatgccat caaggaacta 60  
 aagggagcat taagagacta tgaaatgaan gggcttgtnc ctacaggcat gaccgnaaac 120  
 tcctgctgna nnaggccaga gactttcgtg gtnttgtgaa aggaaactaa ntttaatnaa 180  
 atnttgagnc gnnctnnctt cttgnaacat cctgattagc ggcttgatcc tactggcaat 240  
 accggaaact cctgctga 258

<210> 268  
 <211> 337  
 <212> DNA  
 <213> Mus musculus

<400> 268  
 aactgaggca aacctgtacc tgggactgct ggtcatgtgt ggctttgtcc tctttgatac 60  
 tcagctcatt attgagaagg ctgaacacgg agataaggat tacatctggc actgcgttga 120  
 cctcttccta gatttcgtta ccctcttcag gaagctcatg ttgatcctgg ccttcaatga 180  
 gaaggacaag aagaaagaaa agaagtgacc aactggccgt cagcctttcc cagctcacct 240  
 tctccccccc accccccccac ccctgtttct ttgcacacat cacagggtgtc gtgttctatg 300  
 ataatgaaag catcaggaaa gcttttgtac ttaaaaag 337

<210> 269  
 <211> 150  
 <212> DNA  
 <213> Mus musculus

<220>

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<221> misc_feature
<222> (1)...(150)
<223> n = A,T,C or G

<400> 269
ggagaacttt ctacatttag agctgtgcaa cagagaggag caggctgtac tcctgagagg      60
tagtgagctg ataanaagat tccagacctg tggaaacctg gatgtgaata gtatgatggc      120
agaaattttt gattaaaaag tcattgtata                                     150

<210> 270
<211> 119
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(119)
<223> n = A,T,C or G

<400> 270
cacctttgaa ccctacggct gntttgnaca tnttntgnat actaggtntg cccnctganc      60
ttgggcctcc tctttttctc ttaagtcttg ctttctttcc ttncctctgcg aaatgagtt      119

<210> 271
<211> 525
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(525)
<223> n = A,T,C or G

<400> 271
tgagatttga aggatgcacc ntctggccaa ggacagcctt cttttcggaa gactcccgat      60
tcaaagtggc gacagacggc accatcacag tgaagcggca tctaaagctc cacaagctgg      120
agaccagttt cctcgctcgc gcccgggact ccagtcatag ggagctgtct accaaagtga      180
cgctgaagtc catggggcac caccatcacc ggcaccatca accgctgacc ccctctccaa      240
catgggtctg accttcagtg ccaaagaaga tgcaattgcc tttgcagaaa aaaaacggat      300
ggagctatga tgtggaagag aagaaggttc cgaaacccaa gtccaagtct tatggtgcaa      360
acttttcttg gaacaaaaga acaagagtgt ctacaaaata ggttggagct ggctacatct      420
ctgcttgact gtgactgaag tgtcagctgt gcactattta tagtccatgg ataatgcacc      480
tcttaatctc ctaataaatg tgacctttaa actacaaaaa aaaaaa                    525

<210> 272
<211> 278
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(278)
<223> n = A,T,C or G

<400> 272
aagacagcag acccttgaag gacatgtcat tgcaccttta cgctctgnga tgaccngnca      60
tactntccct tgccctgntt ttcgagtcgn tggaaaccna gnnaganaan tctatncngg      120
agnaagagga taatgcanc cccacgggtg agtgctatnn atagattnta catcatanng      180
aaatatacta ctgcatagct acgacgttac ctanagcata cccatgacca ttaacacctg      240
ttnatgngga cactccagng ntattatcaa ctgccatt                                278

<210> 273
<211> 297

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<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 273
gaactgaggc cctttgattg aatttaaaca gtctnctaga ttgattctgc ctcccaacaa      60
gaacaaactg aggaagtgat gagccacgta gccgntnacc cttanagtnt tagatgnngen      120
gatcccttca tgtatacttt acagaaaacc agttaaccgg ggccgtggng ggcncncncc      180
nttttgnccc acccnnntgg aggcaaaggc aagccggntt ntttcaaagg gggggggccc      240
ctggttccac aaagggggtt cccaggaaac cccccggggn tttaaaaaaa aaccctt      297

<210> 274
<211> 139
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(139)
<223> n = A,T,C or G

<400> 274
acaacttaat cacatgtncg cccgccnctc accaaacctg nattgatttt nangntggag      60
caagaggaag agccttgntg tggagnngag aganntgctg aggagaccct gnccagctcn      120
tgcttactga cctgcttga                                     139

<210> 275
<211> 385
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(385)
<223> n = A,T,C or G

<400> 275
actgaggtgg gagagcacac ctgtacacct gggcacctgg gctcctggac acctggacac      60
ctggacacct ggacacctgg acacctggac acctggacac ctatacaaac tccatacata      120
cacatatacc acagacagat gtgcaaaggg ttatgcacag tgacctggtt agttttaact      180
gtcaacttga cacagcctag agtcaactgg agagttgcct agctttnnca gagngactca      240
cngatgtctg gctngntatt caagtctcat gacacattaa ggagctttca aacagctgta      300
gncgtgnacc taangaantg gtgggnaatg ctgannagct gaagtaattg aatcagagta      360
nnnatattta tcccttgag actcc                                     385

<210> 276
<211> 288
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(288)
<223> n = A,T,C or G

<400> 276
acaatggatc acgttagaca acatgaatga ncaaaaaatg aatgaacaaa tgaagaaaac      60
ggcaaagaca agtggccaga aagggccggg cggaagagcc ctgcacagac tgaccctaaa      120
gcaagacgag gcaaggccag tccagaatac cagagtggaa gctccccgtg tancatacac      180

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catgcgggat	gaaagtgaga	ttagccccga	gactgaggaa	gatggnttcc	ctgacggata	240
cctagagtgc	atcatacgag	ttaaattgtga	atagttacaa	aaaaaaaa		288

<210> 277  
 <211> 180  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(180)  
 <223> n = A,T,C or G

<400> 277						
gctgggacca	gtgccaggca	tgccctcaac	tccagcccag	acctggcaga	ccacattcgc	60
tccatacatg	tcgatgggtca	gcgtggaggg	gttgggttttg	ccattctttt	tcactctttg	120
nttggttggt	tgattgnatt	atttataatt	gcaaatagga	ttttttttct	tcatgagaaa	180

<210> 278  
 <211> 277  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 278						
ggcaaaggcc	aagccgaggg	aggagtggac	ttcactcacc	cacaggcaca	gccaggcatg	60
atgatctgga	tgcccngtga	agangtgcac	gctctnnggt	ctttanctgg	tggggggaagc	120
cagggtcagc	gtntgccctt	nttctnacac	cccttncccc	accctagntt	gacacgncac	180
caaagcttaa	taccctnctt	tacananggc	acatnccggg	gtngtacttt	gggtngcntt	240
gaacaggagc	caanatnngg	ntcaaaaaag	cttggtat			277

<210> 279  
 <211> 483  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(483)  
 <223> n = A,T,C or G

<400> 279						
ggagagacat	gtggacacgt	agcccctatg	gcttctgcct	gccagatcct	ccgctggggcc	60
cttgccctgg	ggctgggcct	cacattcaag	gtcacgcatg	ccttcagatc	tcaagatgag	120
ctcctgtcca	gtttggagag	ctatgagatt	gccttnccaa	ctngagtggg	ccacaacggg	180
gcaatgctgg	ccttctctcc	acctgccttc	cggaggcagn	gtcggngtgc	aggggctaca	240
actgagtccc	gnctatttcta	caaggtggcc	gcacccaagc	actcacttcc	tgctgaacct	300
gaccccgcan	ccccccgtct	cctggcaggg	cacgtctcgg	gaggaatact	gggacacggg	360
aaggccctgg	ttggcagaag	gctgcccggg	cccactgnct	atacgtggc	caccttgacg	420
ggccaggctg	ggaagctccc	atgtggccgn	cnagcancct	gtggggggcc	tggtgagctg	480
aag						483

<210> 280  
 <211> 241  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature

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<222> (1)...(241)
<223> n = A,T,C or G

<400> 280
tgccccaccag taatggaact caccnaagna tacagncngt cctctcttgn tcatggccan      60
gnngcaagan ccaaggncaa gcctgcatgn canatgccgg tgttgcnnaa accnancngt      120
gcctngagga ntgtcctacg ngcatnangc tgagagcaaa gagaaccgaa agggactggc      180
catgcacccc ggggtcgtca aaacaattan gagagggcga taaatccttg aaaaaaaaaa      240
a                                                                                   241

<210> 281
<211> 425
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(425)
<223> n = A,T,C or G

<400> 281
tgagagagca ttaactatgc cccccagctc ctcgggggcca ccctggaggg gagactcaca      60
caatctacct tcacgctgga gcaacccctg ggccaattca agaacgtcaa cctctctgac      120
ccagatccca tctggctggt ggtggctcac agtaacgagt gaaattcctg gcgatgagtg      180
ccgagggacc cgtggctgag acactgtggt ccgaggagat ctacctgcag caagcccaga      240
cattccgaga agctccaggg tcccagggna agggcactgn ggncatnatt gccttcttgt      300
caatcctact gggcattctg cttgnggnncn ttctcgtact ggtcatattc cgcttgcatg      360
annaactnn nggnttcagn ccacaaggan caaggggggg atgctgcact attatccgcc      420
ccaca                                                                                   425

<210> 282
<211> 267
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(267)
<223> n = A,T,C or G

<400> 282
actgagatgc cttattggag gaattggaac gctgcacctt tcaggacagt gaggnatatt      60
caaatccagt ttcttgtcan nggntnngn aatccacaga ggagagcaag attccccaaa      120
ctccaaagac cttgtcatcg cagggttaaca caagtccctt gaaggtnaca tttgaactat      180
tgtagtgtng nagacaatca agngngacaa catttctaaa aattgnattc cacataggnn      240
tatattttgn aaattataaa aaaaaaa
                                                                                   267

<210> 283
<211> 328
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(328)
<223> n = A,T,C or G

<400> 283
tgacagtaag gaacccgaga ctccatagaa nagcccaccg caggetntan atcctgcagt      60
cagaggaaga aggtgggact gagtcccctg gaactgagtc gctcanagtg gggccttcag      120
tanggnctcc tatagtcagg agaggggcct gannatggtc cagncagcac antanntgan      180
gctgccactt taccctggng aactgacccc cctcctagcg cccacttcc ggatcccccg      240
ggctggcgag atattgaacc aganccccta aagtcagagc cacctactaa ggtcggagggn      300

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agccattcaa agtaggatgc caaccctg

328

<210> 284

<211> 274

<212> DNA

<213> Mus musculus

<400> 284

tgaagccctg	acaagcatgg	aacttacctt	ggatatggag	ctggtatatc	tcaaggagaa	60
cttgccatga	ccctcctgcc	tctgccttct	gagtacacaa	atgacgatgg	tctcgcttca	120
cgacacccag	tcagctttct	ctgccagaag	cattcggacc	aggaggagtg	ggttattttc	180
ccaggagatg	ttgcattcct	gattgaacat	gctggccttg	agataagggc	ggccccgaga	240
taacagtttt	taaaaaattc	ataaaaagga	tgga			274

<210> 285

<211> 297

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(297)

<223> n = A,T,C or G

<400> 285

cagcgggtcaa	gatgtcgctn	cntcatccgc	acagganctt	nccggacnng	acgggactac	60
acatgccgtc	cacctgggtc	cctgtccgtc	gttcacanat	acnttcccca	cngangagca	120
cacacngtag	acngcnggac	ngcntgtggt	cannntgtct	gtcggcgctc	cnacgggaacg	180
ggattggaag	gacggactcc	acaaggtgcg	ctgtgtcacc	gaggccgcca	ggatggagnc	240
actctnacga	ttctcaacag	gggctagacc	gcggtacaga	aattgtcctc	ctcaata	297

<210> 286

<211> 449

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(449)

<223> n = A,T,C or G

<400> 286

tgaggcaggt	gcagtgaagg	actatattaa	gatgctgctt	cagaacgact	cccttaaatt	60
tctggtcttt	ggcaccatt	taagtatgct	ccaggcttgc	acagaagcag	tcatcgaaaag	120
caagtctcgt	tacatcagga	tagatggaag	ngttccatct	tcagaaagaa	ttcatctggt	180
taatcaattt	cagaaggacc	ccgatactcg	tgtggctatc	ctgagcattc	aggctgctgg	240
ccagggttta	acgtttactg	ctgcgagtca	cgttgtcttt	gctgagttgt	actgggaccc	300
tggaacatata	aaacaagcag	aagaccgagc	tcaccgaatc	ggacagngca	gttctgngaa	360
tattcactac	cttattgcaa	atgggnactct	ggacagccta	atgngggcaa	tgctgaatcg	420
aaaggctcag	gncacagga	gcacactga				449

<210> 287

<211> 337

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(337)

<223> n = A,T,C or G

<400> 287

ggaccacatg	gcattctgtg	ttcgaagtga	ggagatgtgt	ttatcccaag	tgtttctcca	60
------------	------------	------------	------------	------------	------------	----



ggtggaggct	gcgtattgct	gtgtagctga	gctgggagag	cttggcttgg	ttcagttcaa	120
agatctaaat	gcaaatgtga	acagcttcca	gaggaagttt	gtgaatgaag	tccgaagggtg	180
tgagtcactg	gagagaatcc	tgcgttttct	ggaagatgag	atgcngaacg	agatttttaat	240
ccaagtgcct	gagaaggatg	ctgaagaccc	ctctccctcg	ggaaatggat	caccctggag	300
acgactctag	agaagtttgc	aaggagagcc	tgcagga			337

<210> 288  
 <211> 180  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(180)  
 <223> n = A,T,C or G

<400> 288	
ccccagactg	aaggactgtg agcnngagag ccacatcatc tggacactcc agggctacat 60
agcggccctc	tanancgcag gaagctctca ngagttcaaa gacaggctgt gctacntngg 120
aggatctgag	atgactgggc ttcttgagac ttiggcttta aaataaatta gtagttactt 180

<210> 289  
 <211> 166  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(166)  
 <223> n = A,T,C or G

<400> 289	
tacagtgtgg	gccaaacact aatatgcata aatngangtn nattatgngg ntggctctggg 60
catcaggttt	ancnttcatac aggagcccca ggctcnacct aaccactncc ttataccttc 120
cctcttccag	gaaataaaact tcattttctta atgtcaaaaa aaaaaa 166

<210> 290  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(162)  
 <223> n = A,T,C or G

<400> 290	
gaagtaccgt	gtagctgaag atgaccttga acttctaatac ctggctctgc tccccatttc 60
tgggattata	ggcttgggcc actacattcc attaagagag naggggattg aacctactac 120
tnnagannnn	ctnnaanntt ctttgaagac aggggctctc tg 162

<210> 291  
 <211> 196  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(196)  
 <223> n = A,T,C or G

<400> 291	
tctgggtgta	ttttatataa ccaaacatgt catggctcctt cacagcatac aaatagtttt 60

gacgttttaa	ataaaagtat	ccagcaaaga	caaaggactc	ncannncnct	acgctgggtgc	120
nngantctcc	acctgggtca	aagtgaccac	gcctgnctnt	ttnatcgngn	gtgctctgca	180
cttcttcccc	accccc					196

<210> 292  
 <211> 131  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(131)  
 <223> n = A,T,C or G

<400> 292						60
tatacccacg	tgagtacctg	aagnggaagg	aagntaagcn	cncntgccct	gagcnagatg	120
ntngaganta	tgaccnacaa	ccgnaacgtg	atcactggag	cccatttacc	cctgngggcca	131
gtccacatgg	t					

<210> 293  
 <211> 367  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(367)  
 <223> n = A,T,C or G

<400> 293						60
agagctcccc	cgccagaaga	catgaanaan	catancgact	cgggtaaggg	aaagcgccga	120
gatgatgggc	tttctgctgc	cgcccgcaag	canagggact	cggagatcat	gcagcagaan	180
cagaaaaagg	caaacnagaa	gaaggaggaa	cccaagtagc	cttggtggctt	cgtgtccaac	240
cctcttgccc	tccggctgtg	tgcctgnagc	cagtcccacc	atgctcgagt	ttcttcctgt	300
agtgtcaca	gggtcccagca	ccgatggcat	tccctttgcc	ctgagtctgc	agcggggtcc	360
ttttgtgctt	ccttcccctc	aggtagcctc	tctccctctg	ggccactcct	gggggggtgag	367
ggggggtt						

<210> 294  
 <211> 422  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(422)  
 <223> n = A,T,C or G

<400> 294						60
gactgagaac	agatacaact	tcctggttcc	cctcctgtaa	aatcgtggct	gttgaatggc	120
ttagagtcc	gaagatgtgc	gagcacacga	taccacacca	ggccaccagt	tctgttccta	180
ggagtgtgga	tggtacctaa	tcctttcaca	gccttctggc	tgacattttc	tacacagtga	240
atgggagtgtg	cttttttttt	ccatgctgct	ttttctacgt	ctgagtttct	tggacacttt	300
ccagctgcac	accaaaacag	cttccttggt	tgtctanacc	gtcggtaatt	gactcaagcc	360
gtcccccttg	gaagccatgc	accggacttt	ccttgcatgt	cgtataanag	tgcttgcgta	420
gattcctaga	agtggatgaa	ccagccaagc	agctatgtnc	ctggngcgat	gttgatagct	422
gt						

<210> 295  
 <211> 105  
 <212> DNA  
 <213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(105)
<223> n = A,T,C or G

<400> 295
attttcctga aagtaatatc ntcncagaga agcttccctg gnacctgang tacacctncc      60
tgcatgannt ccccnagnacc agcagttata accaggacta tactg                        105

<210> 296
<211> 178
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(178)
<223> n = A,T,C or G

<400> 296
cctgggacat gttttctgga agagcnatcn aacgantgga acaaagaatg atnaccgtnt      60
gctgcaggct gtggaaaacg nagangcatg anaangngac ctcactgctg nacaanaaag      120
ggtccagccg ccacgaagca tgacaccgag ggcattnnacc agcgtaggag agaatttt      178

<210> 297
<211> 114
<212> DNA
<213> Mus musculus

<400> 297
actgagaggc agatctgaca aattctggca gttctccctc tgaggatgat gccctgcctt      60
caggttctcc ctggagaaaag aagctcagaa agaagtgtga gaaagaagaa aaaa          114

<210> 298
<211> 274
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(274)
<223> n = A,T,C or G

<400> 298
cgtgggaagg tttcccagcc gagnccaggg acctgcaagc ctgtctactt gtcctcggag      60
ctggaggaca aggaacagca ccagggtgtc cagcccgtgg acggnccaggg aagtctcgtg      120
agcagcctgg ccgttggtgc cctctattgt ganggaggag agcancgagg aggttnttgc      180
catagctgct acttgtgcta aagaactcgg acatgancct gtccctgctg atcttggggag      240
aagtgcgcac cccagagccc ccagaatctc tcaa                                274

<210> 299
<211> 244
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(244)
<223> n = A,T,C or G

<400> 299
gatccagagg atgataaaga aatgatagca gctccagana taccaactga ttttaactcta      60
ctgcaggagt cagagacaca cttttcttct gacacagatt ttgaanacat ntgaaggana      120

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aaatcanata ncaaggcaca ggcaaaactt tnttttttaa ggcnnggggg ggtccagcag	180
aaaagggtna aagaggaaat ggtaggagga aaacctcctt ctnggctcac acccgaatga	240
acgg	244

<210> 300  
 <211> 130  
 <212> DNA  
 <213> Mus musculus

<400> 300	
agaggcaaag aatgttgctc ctacaaagga actctcctga cagaagtcca cagaggacag	60
atggatgggg atgatttcca cactagtcc taacttttaa taaaaccaag cctgcagccg	120
tgtaataata	130

<210> 301  
 <211> 122  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(122)  
 <223> n = A,T,C or G

<400> 301	
catactaaca gaggctgggg gggattntgt ottggntntc attangacca nngcgnccct	60
attgatctnt tcatggngga aattgtggag atgaggcaca agtcngaaac ggacacacag	120
gc	122

<210> 302  
 <211> 131  
 <212> DNA  
 <213> Mus musculus

<400> 302	
gtgtcgtcaa caggaaagtg ttgtctcaga agaggagcta agatgggaag tatgggctag	60
gacgggaagt gcaggtctac tacaggacca ggtgaaaaat aaagtcactg aaacaattca	120
aagaaaaaaa a	131

<210> 303  
 <211> 164  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(164)  
 <223> n = A,T,C or G

<400> 303	
gatgtaccct gctaccacca gggccttgct tcccgtgtag ttgccaaaag aaaaatttnc	60
gctgccccat cctccttgct gagaagnctt cctcctttgc tngggcattt ccgctgcccc	120
attgctcctg ttgaaaagga cttnccttt tgcttgggca tttta	164

<210> 304  
 <211> 536  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(536)  
 <223> n = A,T,C or G

<400> 304  
gaactgaggt tcttcaggag atgtagctga aacggttggt gaccaatcag tcctgtgtga 60  
gntctgatnt atanggncca tgtgcagcnn ctacaggncn cgggnaacac ntantgacac 120  
tganctttnc agcacgnng agaggncctgc nttcntggnc ncntcntatn ccnancctc 180  
nttccaagag cgcacctnac aatcctgcna ccagtccttc nggtggcanng tctganagca 240  
tgcacaggtc aatgacttct tgcagacaca ggaaatccac gcactcaant ccagctngag 300  
atgttnctcg gagctnttca nagtcggnac tgcaacacaa aggagcangc aggcctnctc 360  
cagactncta tntaggattt gcccaggaag taagcatcng tcagactctg nacattcctg 420  
ntagangtnc catgtacttg gcagcattcg agtnttcta cgttnaaaga gaaattcttt 480  
aanaagaatt tccagaagct gggcgtggng gacacgcctt taatcccagc actcgg 536

<210> 305  
<211> 324  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(324)  
<223> n = A,T,C or G

<400> 305  
actgagtgc accaggggcaa aggccataa ctccttncat gctgncttcc tgatacacia 60  
agcatcacia acctctcgan ttacctctgc caccgcgcaa ctccacgagc cctcttctg 120  
tcccctgaat gccatgcttg ccagcaaccc ctgggttcaca tcngngactt aagggatccg 180  
atgaagatat gtggaccagg atgctctgtc tttgagcagc ctactctaata ttcttttttg 240  
atgctccctt ttagttcctc gaactaagct gcttctttgc taagtacaca tctgctaaat 300  
aaacttcagc ttaaaaaagaa aaaa 324

<210> 306  
<211> 164  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(164)  
<223> n = A,T,C or G

<400> 306  
gccacctggc ttctcttttct agaggaccna ggttctatnc ccagtnntga cattggaagn 60  
tcanangagn agtgntnctn cgtncataat ctgaagtnct ctctgacctc tttgggnact 120  
gcacacacat ggncaaaaaca cctagatgca taaaataaaa ataa 164

<210> 307  
<211> 481  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(481)  
<223> n = A,T,C or G

<400> 307  
tgagaattta agaagctttt attcatgtgc atgtcataga agatgaattc atcctcttct 60  
actatgaatg aagaacctga tgctctatca gtagttaacc agctacggga tttagcagca 120  
gatccactaa atagaagagc catcgtccag gatcagggat gtttgcttg ccttatttta 180  
tttatggacc atccaaaaccc tctgtcgnt cactcagctt tgcttgcgct acgctacttg 240  
gctgaatgcc gtgcgaatag agaaaagatg aaggggagagc tggggatgat gctgagcttg 300  
cagaatgtca tccagaagac tacaactcca ggagaaacaa aacttctggc ctcagaaatc 360  
tatgacatcc ttcaatcctc caatttggt gatgggtgata gttttaatga aatgaatttc 420  
gcgtagaagg aaagctcagt ttttttttg gaactacaaa caaacgggccc aaaacagtag 480

t

481

<210> 308  
<211> 356  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(356)  
<223> n = A,T,C or G

<400> 308							
tcttgtggaa	ctcttaaagg	ctcgtgcagn	anagcatggc	ntggtnccnt	atngganttc		60
tttacnatgt	cgngtgcctg	ttgatccacc	tgaaggagta	tggccaccag	gttcctgaaa		120
gggggaaaga	tgaaatggtt	caatctacct	gaggggttaa	acgtcacttc	ttgatggaac		180
agaggataca	acaccagggg	nnnatgtncn	ctncttgngn	agttncgtac	tncttggaac		240
gcgacgctgg	nntgacncac	atagagatgt	tnctgctcng	ntnnacgncc	ttgactgnct		300
aacncccggc	tggaattata	ttatcacaan	gaggnacctc	tacctcaaag	actata		356

<210> 309  
<211> 188  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(188)  
<223> n = A,T,C or G

<400> 309							
acttgaacat	acccaagatc	tctttctact	cattgcaact	tctgaatcga	tcttctgggc		60
taagaaaaag	gatcaagatt	ctgtgatnng	aggagctgaa	naacgttata	annctacatg		120
tgncgtgtgt	tttctgtttt	cttignaagg	acaattaatt	tcttctctgg	tttttctatt		180
ataaacca							188

<210> 310  
<211> 266  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(266)  
<223> n = A,T,C or G

<400> 310							
caaagcatgg	gtttgccaga	tgtgcaccac	aaaggctgtg	gagggggttg	aagcatgagg		60
ttggcatgat	agcgacctga	cagtgggaac	ctancatgct	gaatggagac	ngtttcagga		120
gctccaggcc	ananagacnc	cacnagatga	aataggtcng	gncttttacc	ntcagtgcac		180
gntnagnacg	gcacaancgc	nggagcgagc	cggctctatt	ttttagatac	ttnccttcaat		240
agagaccctt	gccttaaaaa	aaaaaa					266

<210> 311  
<211> 179  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(179)  
<223> n = A,T,C or G

<400> 311  
 gtgggttggtg acactcaaga agcctaccag agagngcctg ggtatgaacc ttgatggtat 60  
 caaagagcct gggtcnggtg gtananagcg gctgncncaa gngaggctcg agcatctcca 120  
 agnnactatt ggaggnact gtaccacact ggctttgaac aaacggctgc cgggggaag 179  
  
 <210> 312  
 <211> 129  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(129)  
 <223> n = A,T,C or G  
  
 <400> 312  
 ttaacctgat gatggangag atgatcttna ccttgctgac acacaccngt ancttnantg 60  
 acctgnagga ctgtgaccaa ntccacgtgn atgatgtctc atccngatga caatggctcag 120  
 gatttaagc 129  
  
 <210> 313  
 <211> 263  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(263)  
 <223> n = A,T,C or G  
  
 <400> 313  
 tctctatctc cgccgtggtg atgtcctatc tgcagaatcc tcagcccatg acggcctccc 60  
 tggatgatgcc acctaggagg gttggatcct ggactcaggc ccacctctc tctggcctag 120  
 cctttggctg cctccgccct ccctcagctg ctgtcctaaa ctttctctgag tgtgggtctct 180  
 gggctcccan ctgaatggaa ggaagntggc cctttctttg gggccctgct tctgctttga 240  
 caaagagata aacctgcaga ctt 263  
  
 <210> 314  
 <211> 436  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(436)  
 <223> n = A,T,C or G  
  
 <400> 314  
 catgtgatga gccagaagct atcnnatga ggaagatagg cctatcatca tggaaggagc 60  
 caaccagcca gagacggaga gcagaagcca gtaggggctg agcatgaaga ttcagttcct 120  
 ggacactaag actgttggtta tatccagctc agacctgcga gccacaggcc tggcctccag 180  
 tattatgatg gactacttgg gccttacctg gnccagccct tggttctggg ttctgcagac 240  
 tgctgtttga cctctggctt tgagacatgc ccaaagaagg gctggctggt cttcatggcg 300  
 tgctaagcca gtgcctcaga actcaggagg ccagcctggg gtccanaaga tgaccacctt 360  
 accttaggac agccacttgg actcagcttg tggagggggg tcttgctggg ctggagtntc 420  
 gtgcctgggg ggggtct 436  
  
 <210> 315  
 <211> 196  
 <212> DNA  
 <213> Mus musculus  
  
 <220>

<221> misc\_feature  
 <222> (1)...(196)  
 <223> n = A,T,C or G

<400> 315  
 aagacaagag gagagatgga gaagtgccat gactcagggg agaaggatgg gacgtaggag 60  
 cttcaggagg gaaagccaac cagccatgtg agaattcggg tagctcctgc aagggcacac 120  
 tgtgcagtgc atctggctga gaaccaaagc gatgtanccc aaattaccag tacaagcttc 180  
 tgagatcctg gaaaaa 196

<210> 316  
 <211> 237  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(237)  
 <223> n = A,T,C or G

<400> 316  
 ctgtgaaagt gatgacnatg acagaacgtg ncaagcnagc tctagtgact ggactccgcg 60  
 gccgcggata ggtccatata cttttgttca gcaacatctc atgattggca cccatcctcg 120  
 aacaattctt aaagatttat taccagaaac aattcctcca cctgagctgg atgatatgac 180  
 gctgggggag attgttatta atatcctttc agaaccacca aagcggaaaa aaaaaa 237

<210> 317  
 <211> 142  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(142)  
 <223> n = A,T,C or G

<400> 317  
 atacatgaga aaacanggaa gagaaaagag atgcactaac ctttgaatat accaacadat 60  
 tggcagagat caaaggaagt taacagtgtg tacccaaaga accatgccgt tttaatgaac 120  
 aanactgcct atgaataaaa aa 142

<210> 318  
 <211> 104  
 <212> DNA  
 <213> Mus musculus

<400> 318  
 tgaggctttg tcacctctg cagacctcat ccgccagcga gagatgaaat ggggtggaaat 60  
 gaattattca attaaaaagt ttactttaga ccacaaaaaa aaaa 104

<210> 319  
 <211> 125  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(125)  
 <223> n = A,T,C or G

<400> 319  
 agttgtgggc acgtgcctct tccagtttga cagcaagtgt cttttacctt ctcagccacc 60  
 tgagaacca gaagagttgg ttttcaaagc tgagctctga ctaataatna aactagaaac 120



aacaa

125

<210> 320  
<211> 231  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(231)  
<223> n = A,T,C or G

<400> 320  
gtactctgag ccctgatcan naaagagctt tctgaaagac ctatagngca tggctgcbgng 60  
gtgtncacag ggtttccctg tgtattctat nccttggana ntggagantg acnctcactg 120  
cctgtggacg gatcatgtnc tnggggcnct ctgaggacta nnagnanccn tcactttgct 180  
ngnctgccac nggaattcag ngttgtggca natggagatc ccttggggcc c 231

<210> 321  
<211> 266  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(266)  
<223> n = A,T,C or G

<400> 321  
gactgagttc cggactccgg ggttctgatg ggctgctctg aactccgtnt gaccaggctc 60  
acacatcana gatatgcagg canaaggatg tatagangga ggaggaggag gaagaggagg 120  
aaatgnntng tctgnaccnc ttnatctcan tatcctatct cngccnttcc tatttntnct 180  
acntagtant ncttctcnt cgcctgtgg tncctgcgctc ttcattcttg ctttccctgng 240  
ctgntatggt gctcactctg agaaca 266

<210> 322  
<211> 122  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(122)  
<223> n = A,T,C or G

<400> 322  
cttctcaagc tctagatgac tcatctanct ngacacatgc nggcctcatt cgggtaagaa 60  
gccatttnaa tgtcgatcnn gtgcanttat gtggcctcta atnancgtga ggtgaccag 120  
ac 122

<210> 323  
<211> 238  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(238)  
<223> n = A,T,C or G

<400> 323  
tcgcagggtga agccttctgg aacgcgtaca cagcaggncg tgagggcngt gcatncangn 60  
taccacactc tncggncntnt angnctcat agggctcaga caaggctcct gcananaaca 120

caggccangc cncnctgnat ctggctgccc tttcactngt tgnatgcgga agccggctgc 180  
cncantcctt ctcccacagt acagnagnac tcncngccac agtcacggtt tcgggcgc 238

<210> 324  
<211> 110  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(110)  
<223> n = A,T,C or G

<400> 324  
gtcaatgcgt gttcctgaac aagaagatgt ccactgtccc ncaggaaagc caggatgggc 60  
aagaggaaga agtcactggt gaagatgttg gacagagaga gtcagacgat 110

<210> 325  
<211> 181  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(181)  
<223> n = A,T,C or G

<400> 325  
ccgagggtgt tcgtgttgat ttacagttat ggagatttga ctgaccatat ngagaccna 60  
aaatgggaaa atattgttta gaatgaacat ggaactgttc atggaacaaa aatgaaagat 120  
gtcaataccc gngaaaagga taaacatgta gtaaagnagag gatatcatga aaaaataaaa 180  
a 181

<210> 326  
<211> 174  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(174)  
<223> n = A,T,C or G

<400> 326  
tgctctatag aaccttttcta aacagggtcca ctacccctt ctgcatccct tcttgtatcc 60  
tttctctcct actacctctg gtgagtagta gggctaagg gaaagttaa gcttttaaga 120  
accatcaggg gngngctttc atgaggaaaa tacctaatat taaaacagaa aaaa 174

<210> 327  
<211> 179  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(179)  
<223> n = A,T,C or G

<400> 327  
acctggcctc atacaaaccc tgnagatggg ttnttnaccc gagangtttg tngatttcan 60  
ccaatgatgn tcatggggaa atgaacatan acagacctna tnttctaaca gaagcccagt 120  
gnancacacc cttgatagng tnctgaacat gactgcagat ggttctgata aaaaaaaaa 179

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<210> 328
<211> 343
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(343)
<223> n = A,T,C or G

<400> 328
gactgagagc cgcacgcggct gtcttggtga agagtcgggc acggtcacat ctgggagcag      60
cactgtcggt cctgtctcgn atgtgctcct gtgtcacatg tcacctgtca tcttcagaac      120
ctggaagtta tgacttcgag aagccaaggc ctgctcagnc cacatggnan ccctaaagan      180
agcgganaaa ctgactgcac tgnacngngn ngggcttggc cgaggatgcn ctagctttca      240
ttcgnecgtg anaccgcan agttgnatta gcttctngca aagctcaaga actgtacacc      300
accaccctag ngcatgcang aggcccttgc tatatgcaga ata                          343

<210> 329
<211> 107
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(107)
<223> n = A,T,C or G

<400> 329
agaatcttct cagggtccnt ctggactnnt cggccnaagg atggactatg gnnnaagatg      60
ccggaccctg atttcacagn cctgagacgt naaactcctg gtggggga                      107

<210> 330
<211> 255
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G

<400> 330
agaagtcctt tttacccaat actttangtc tgtctaccaa atcatcacag gtaagaatgt      60
gtcataatga aagccactat tttgcataca taaagaagaa nccacaaggc agaactgnag      120
nnangactct gtggctnaag gggcttgccc ctgagcctat gatctgagtt tagtccctgg      180
gacttgaaca gtggnaaaga attgnttcta tcaagttgtc ctttgacctc tacacgtgca      240
cagtggcaca tgcac                          255

<210> 331
<211> 459
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(459)
<223> n = A,T,C or G

<400> 331
ctccacacag agactgaang ccaggctgcg gtggatggac cangatgctg nggnttgacc      60
anactgctgc ggatggacca ngctgctgcg nntggaccag gctgctgcgg ttggaccagg      120
ctgctgcggg tggaccaggc tgctgcgggt ggaccaggct gctgcgggtg ggcctcgctg      180

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cagttgctgc	ggatggatct	gatgcctgtt	aagcatcact	tctccagtgt	gagcccgcc	240
cctccatttc	cgtcacgtgt	gccatcttt	ttcagtcata	tgaactccaa	ccatcagcgc	300
aacttaagtt	cggctgtctg	ttcgtgcatg	cttaatatata	aaaatgtact	aacagtgtgg	360
ctgagaaatc	aaattatgca	cataaatatg	ctggcatagc	anaggcggcg	gcagaagctg	420
aacttagcag	agctgacgcc	agttcacatt	tgcaaatcg			459

<210> 332  
 <211> 106  
 <212> DNA  
 <213> Mus musculus

<400> 332	
gaagtaccgt	gtagctgaag
atgaccttga	acttctaata
ctggctctgc	tccccatttc
tgaggattata	ggcttgggcc
actacattcc	atttgtgagt
tgggga	
	60
	106

<210> 333  
 <211> 213  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(213)  
 <223> n = A,T,C or G

<400> 333	
aaagcgtcgt	ctaaaagaac
caaataaaca	aatagaaaag
atgccagggt	agcctcagtg
gttaagccac	ctaacttcac
aatacccagt	atccacatgg
ttaaaagaga	agattgacat
ctgagagctg	tcctctggcc
tccatgggtga	tcagtggagng
gcacgtgagc	catctnccct
ctactngcnt	gtgagngtct
gcccttacac	taa
	60
	120
	180
	213

<210> 334  
 <211> 464  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(464)  
 <223> n = A,T,C or G

<400> 334	
ggccatcccc	ctcaactata
aaaatatatg	aatcggaatt
gcattttccc	tggaacaaaac
cctgagcaga	aaccagaatg
ctacacttca	tccagaaagt
ttctggagca	tcttcaaaga
tgctgaagaa	ccctttttaca
gngagacttg	gagctggcag
aatagacata	ctttctctca
agacatgtct	actgnagaac
ttttcctctt	tgccctccaa
aacttggctt	tccccatcat
ttcaagtgtg	tatgaggaag
atacaatgct	atcatgtgtc
accatgcaac	tttaaaaagc
anaaggcagt	ccttctctcca
aagaaacnga	agcaccatca
cttacctact	cgatagccca
aagccagctt	tatatataac
tctggcgggg	ttaatccctt
ttactgctcc	cccacttctc
atggtataata	caaagtctta
tatccccgtc	ctagctttca
ctca	
	60
	120
	180
	240
	300
	360
	420
	464

<210> 335  
 <211> 193  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(193)  
 <223> n = A,T,C or G

<400> 335	
aaggcatctg	atacacanat
gctctcggtg	tggcgttatc
atcctcggca	ggaanagggc
	60

nctccatgcc	ntgctcctnc	cactgattat	agatctctgc	gatggaatcc	tgaggaattt	120
tcacaaacac	ttctttttgca	ncttcattgt	tcttttaatgc	tatgaaaaaa	attcantata	180
tataaacttc	tgg					193

<210> 336  
 <211> 408  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(408)  
 <223> n = A,T,C or G

<400> 336						
catggatggg	tagctgagat	aaaggaaaga	caaaggctgg	ggctgnggng	cttgttgccct	60
gacgccctgn	gagctgaact	ctgggactgc	tggttgccat	cccaggaagt	gctgcttatt	120
tgagggtgnc	tggtggaaat	gggtaatctc	cgaggatgtc	tgacgcctgc	ttgttgtag	180
ctgtgactgg	ggaaccccaa	ggcagaggca	ggggtcaggc	agctgagaag	cagcagaaga	240
acacacttag	attcaccttc	tggtctttaca	atagttcaaa	tatagaatcg	aagtgaatc	300
tcattggatt	atgcctctct	aatgaaaagc	gagctgtttg	actatacgga	aaatgtgctg	360
acattaattg	cttctgttta	ttaaagggtga	tttgcaaatt	aaaaaaaa		408

<210> 337  
 <211> 485  
 <212> DNA  
 <213> Mus musculus

<400> 337						
gagtccttgg	ctccatgccc	caaacgcac	ctggacgggt	aacctcagag	ctgtgaagtg	60
gatggacatg	gaagcgaagc	atggaggctg	ccatggtcac	tacgtccatg	gcatttgtat	120
ctatggaaac	ggagacttgc	agtggctgat	taattcgcaa	agcctgtttg	ctaacaatt	180
tgaactcaac	acataccctc	ttaccgtgga	atgcctggaa	ctgaggcttc	gagaaagaac	240
actcaaccag	agtgagatcg	ccatacagcc	gagctgggat	ttctgacctg	cagcagctcc	300
ggcctaaatg	gaaattgaag	acgtaaagaa	gagctttctt	ttccaagaga	ctctgggtct	360
ggctatgctg	aagacttttt	taaaaaatgg	ttttcagggg	accgtgagga	tttggcaaca	420
tggtctctgt	tgcaatatcc	actgagcact	gtaatacatt	tgacaggatg	gctgaaaaaa	480
aaaaa						485

<210> 338  
 <211> 338  
 <212> DNA  
 <213> Mus musculus

<400> 338						
gaagagctca	gcacacagac	tcaaaagtac	aaggatgaaa	tgtcacagct	caactgcagg	60
gtccttcagc	tggaaggaga	gccttcttgt	ctccatacac	agaaggaaga	gaaccacggt	120
gctatccagg	tgtaaatgaa	gaagctggag	gaggcagggg	gccgggagga	gcagcagggg	180
gatcaaatcc	aaaacctgaa	aattgaactt	gaacgtgtga	atgaggaatg	ccagtactta	240
agactgtcac	aggcagagct	gacagaaagc	cttgaagaaa	gtcgaagcca	gctctacagt	300
gtccagctga	ggctggaggc	agcacagtcc	cagcatgg			338

<210> 339  
 <211> 370  
 <212> DNA  
 <213> Mus musculus

<400> 339						
tgagatccct	ctccggggat	ttcggtttgg	gacgaaagcc	acagtgactg	ggcagtttca	60
gggatgagca	aagtcagcct	cgagcctgtt	ccatcaaggc	accaagcccg	gcgacaccaa	120
cgctcaggag	gttttttagt	ttcatggctg	ccttgtggat	ttgttctttt	acagtcattt	180
ctttattgag	aaaggggaca	caccaagggt	agaggccact	tgccagagct	gttcttctcc	240
tgccctgtag	gttccaggga	ttgaactcgg	gcgagcaggc	aagtgggatt	taccctccga	300

atagctgtca gcccaaagtt gttatttaat gaaatctgac ccgaggtatt agaaatcgga 360  
 aaaaaaaaaa 370

<210> 340  
 <211> 233  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(233)  
 <223> n = A,T,C or G

<400> 340  
 gccttatgag tacgtncna cncacacgcg ctgaacctga atcaccacaa ctcgccctt 60  
 ggatgacagc cnaanncttt ngcattntgn ctangattnc ncgangcacg cctgtctaata 120  
 agccnagcct gttgatctaa gagagcatnn ntctccnana ctcagctcng naaggagagn 180  
 tgggcgaatg gatccaatct gagatagtgc tncgtgctcg catgcatggg aac 233

<210> 341  
 <211> 230  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(230)  
 <223> n = A,T,C or G

<400> 341  
 ataggaaatg aagcgccttg agccacatca tgggtacagcc aaaccacagaa gccaggctgc 60  
 gaaggttaaa gccacagagg cagtgaggag cacacgcctc tgggtggacc tcagatgcct 120  
 cgcagcgaca gtcacacctac acggtgtgta tttagacagt gccacctntg acttaagtnc 180  
 agttttcaca gacccgagat aaggcggggg gggggggggg tccccctgcc 230

<210> 342  
 <211> 122  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(122)  
 <223> n = A,T,C or G

<400> 342  
 aagcctggcc tctccatta cagagagggg gaagatggat atttgggggc cttacgattg 60  
 tcatncccta ccagctgtca cttccagacc acccccact ccaaacttgg ctttaaaactt 120  
 tt 122

<210> 343  
 <211> 274  
 <212> DNA  
 <213> Mus musculus

<400> 343  
 actactttgt ggcccaccct gtccttgaac tcagagattt acctgcctct ccagcactga 60  
 gaagattcag gaattctgat accggcttcc ctggctagaa accttttaag agtactgtta 120  
 tatttggtac tggggaaatc caccttccat aaccctgctg ggacataact attaagaaga 180  
 cgtttgctac tgacttcgtt cttcccttgt tgattgtgcg gtgttctttt tttgcaataa 240  
 accattcact agtcctccta ggcaaaaaaa aaaa 274

<210> 344

<211> 210  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(210)  
 <223> n = A,T,C or G

<400> 344  
 gcagttttgt tctttcaaaa taagaaccaa gacccagggc ttctgcagaa angaatacag 60  
 tctgaactgg ctgtgcaatc ggctgcctctg tcccctggca aatagtcagt atgctaccat 120  
 taaagaagag aaaggtacgg gagctacacg acaatttata aacggatgtc cccagcctct 180  
 gtaaataata ataataaagc tgtctaactt 210

<210> 345  
 <211> 143  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(143)  
 <223> n = A,T,C or G

<400> 345  
 ggccaatcca cgtcttctca actcctcctc tgctctcaca tcacatccaa tccaactggc 60  
 aangngntn ctgctaccan ngcagaacag ncccatccca tcaccccacc cactactaaa 120  
 gaaagnactt acagaaatac caa 143

<210> 346  
 <211> 270  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(270)  
 <223> n = A,T,C or G

<400> 346  
 gagaagcctg actcctagta gannctgagn cttctgcact atnntccaat ngtnacaaa 60  
 nntgntctnt ttgnggaaca naaagaaatc cgatccctct gngnagngna ttgggaanga 120  
 atncgattcc taaatgagan gctcgagggt gaggcacctg tttctgaact ctgcggttga 180  
 gcangganga cgaggaagtt ccagcatggc ctcgggggat gttggctaag ggacagagcc 240  
 caaagantnc ttcacagaga ccacatattt 270

<210> 347  
 <211> 467  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(467)  
 <223> n = A,T,C or G

<400> 347  
 tgagggtctc tcccanacct gaggtagggc anaaccccn tgggnagttt tgttgcttgc 60  
 tgatccactt ncggtctngg atgctgtgga caggctctgat gaagacaggt cccgtgtggg 120  
 ccgggaagac tcagagggtta gataggcgan aagcacgagc gattacctga aaaatgctgt 180  
 gtgcatcatt atcgcccana nagtgctttg gcgtggnggc ggatccatt gtgagtgatg 240  
 tcttctccgc tgatgcagtt ctcatggtct ttgtncactg ggacaccaa naaggcacc 300

tggacagtct	ttcctggcag	caaattgtan	atctgtgcat	tggagganaa	caaagggctg	360
gacctggagg	caagatgcag	aggctaacca	taaaacccgn	gaggcattct	tcgaagcctg	420
tacatgagga	cnccttctctg	gaaacacaaa	ggcatttttaa	aagacat		467

<210> 348  
 <211> 344  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(344)  
 <223> n = A,T,C or G

<400> 348						
gcacgttttg	tgccctnccc	gcctncaaat	tgccctcagtt	acaaatcatt	agggcaggct	60
tggtgagcaa	gactggcaag	cacatttttaa	ggtcccgtgc	tgtgggggtg	atccatctca	120
acttgagtca	taagaggcag	aagnggatgt	gagagaaaaga	gacacacact	agagacagan	180
agccaaagag	ggcagagaga	cttgacttta	agagactcct	gnactgacaa	ctccatgcag	240
ttnggaacca	gaacaactgc	ggctgaacca	nggttcattg	ggacatggca	aaacgctgac	300
actaacctct	tattcagaat	gtcccaacag	gccattcgtc	gtac		344

<210> 349  
 <211> 158  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(158)  
 <223> n = A,T,C or G

<400> 349						
agaaccacca	attgcncgct	cttaaataat	agcnaacagn	gggntgttat	aaggtgcttt	60
ataatatcaa	atagagccctn	gagcaacaca	natcacaggg	ngctagggag	ggnagagccc	120
cactgctgna	catgcaaaac	acagatgtga	acccagaa			158

<210> 350  
 <211> 370  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(370)  
 <223> n = A,T,C or G

<400> 350						
agaagtcttc	atcagaaatc	atggcactga	caggctgnng	ttcangttca	ggtgaagaga	60
atctcacagg	cagatggcag	ctactganga	gcgagttctg	tgataaccgc	agaagggcat	120
tcgccaacta	gaaagaacaa	acagggcagt	gtgagtgcc	cgacanagat	gagagccttg	180
gagggcagag	catcagagat	ggagacccat	cccacagggg	gcctctgtgt	ctgtgagcag	240
gatgccttgg	aaaggccaac	ttcccagcga	cacagacgca	aaggcaattc	cagcgaagaa	300
ttgctccctg	tttttaccct	aaaagtgatc	tgtcagctgc	cancctcatt	actttttcta	360
tttcccttca						370

<210> 351  
 <211> 145  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature



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<222> (1)...(145)
<223> n = A,T,C or G

<400> 351
tggtcgctg ctgccggctc acgatcance ancactagaa naccactcg ctagcggagc      60
accgcccagc tcacgcacgc ggacacgttc tctatggagg acccggtgcg gaaggtcgcg      120
ggcggcggac ggccggcggg gaccg                                           145

<210> 352
<211> 329
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(329)
<223> n = A,T,C or G

<400> 352
tagcatcaga atgttcctga agaagaaagn atttnccttg nagnacacat ggagcggatt      60
tacaagagag gntnnctgct tcgccattnt aggtnanatt ngcgactgcg agatccngga      120
taaganatcn cggaggcnctn ctncctttaat ctgatgagan acctgnggca caggaagctn      180
attgtgggcn tggtaatttg ggggggagcnt ttnagtacaa acccaanccc tttttaccct      240
tttnaaanag tncctgggaa caaacgggtt ccatnttttt taaccccaaa tttttaaaact      300
tttgnttggg acccaaacc ttaaaaaaa                                           329

<210> 353
<211> 129
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(129)
<223> n = A,T,C or G

<400> 353
cgtctactcc atgcanganc cactgcatan aaggactgtc ccaanctcag aggaactctt      60
ccaagaaacc tgtatngact acttgaggcc ttgaactgcc tanagngtgg gnctgccttt      120
gcttcctag                                           129

<210> 354
<211> 393
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(393)
<223> n = A,T,C or G

<400> 354
gctgtgcata ccccgagtgg ggctcctgtc aggagaaaag gccatcgctc aagaagcngg      60
ctcagcggca gctgctccat gaggagcctg aagggtggctc tgcagcagaa ggaggagagg      120
acacggggagc tcgagcccca ggtgactctc tgcagagcta tggaggccag gagccgcagc      180
cgctgaggtg ggtgtccaca ggtaggggtg ccaagaaggc atgtcccggc ttctctgggc      240
cttggtatcc ccacctggaa gctggaaata ggaaatgtga gggagaaatt aacatgtcaa      300
atgctcaata caacgcgctc ggggccctac agatgggtgt ggtggcttat gcctatcatt      360
ttggctttca agttcaaggc caacttgggc aat                                           393

<210> 355
<211> 194
<212> DNA

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<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(194)

<223> n = A,T,C or G

<400> 355

gcacccccac	tcgtgttttt	aagtgtatnt	ttataagata	catgtattta	caattganct	60
tttgttacat	aatgctgaaa	tgctactgga	gatngtgaaa	aatgtttcaa	ttttatctgg	120
tccttatacc	aaactaacat	ggtnattat	tatcacctta	gtgatacagg	anataatgag	180
ctaaaaaaaa	ataa					194

<210> 356

<211> 242

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(242)

<223> n = A,T,C or G

<400> 356

tgatgaaga	aattgaaaag	cgacccaaag	aaaaatttac	cagtaaata	tgctggtaac	60
aatcgnttag	acttncnac	acagnnnctc	anggnngac	ttttgngctg	antttncag	120
catttcttgg	accnacgcca	tgtatcaana	ggngnggntg	tgaggtataa	cctcatcggc	180
gatgtcgggtg	ccttctatgc	tgcgaaacta	cttcagggtat	tacgttgctg	ccagcaagtg	240
tt						242

<210> 357

<211> 236

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(236)

<223> n = A,T,C or G

<400> 357

aggacacgcc	taaatgttgt	gaagttgtat	gttcacaaag	gggattcgggt	gactgtgtac	60
acgagtgggtg	gtaaccccat	cctatttgaa	ctggagaaaa	atttgtatcc	aacagggtatg	120
gtaaccagat	gaaatgccca	gactgcagcc	ctggtgaaac	acgttattct	ctgttgatta	180
agggtgtgata	tttggtttttg	ttttccccc	taaacntacc	ttttcaaagt	aaataa	236

<210> 358

<211> 143

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(143)

<223> n = A,T,C or G

<400> 358

actctgacca	gactctgang	gcatacacca	gtagaggatg	tngaaccaa	gaagagcacn	60
tacgttcagc	atctagtcca	gaagatgata	agaagaagaa	aaggaaatct	agtcattcaa	120
aagacagagc	caagaaaaaa	aaa				143

<210> 359

<211> 129

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<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(129)
<223> n = A,T,C or G

<400> 359
aaggaaagcc acagcattca ttacgacatg acanntgacn ctatgancaa gtgagcatgt      60
atcngaaaag gagtctngac gaaagaggan tgaatttgac attaataaag cnattttattt    120
ttaacaaaa                                     129

<210> 360
<211> 256
<212> DNA
<213> Mus musculus

<400> 360
tggctgttct ggaacgttgc tttgtgaacc aggctggcct cgaactcacc gagattaaag      60
gtgtatgaca cctctgccta gctccattct ctactgttct ctacaatgcc cgctaagtca    120
atgccacgga gaacaaaagc tcgctcctcg ctcaccagat gccgggtgga aactacattt    180
accacaagac tgtgaggctc tctagactct gagccaatca caaccagat gaaaagcttt    240
ttctcaaaaa aaaaaa                                     256

<210> 361
<211> 143
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(143)
<223> n = A,T,C or G

<400> 361
ttottgagtg ttttaagtgg atcgagctgc cgctgctaac ctgtgaactg aactgccaat      60
ttccagacaa cacaacaggg agttgctcca aagaaccttt ctaaacaggt ncncttgccn    120
cgctgaatat cgtttctttt gca                                     143

<210> 362
<211> 110
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(110)
<223> n = A,T,C or G

<400> 362
atagtgtgga agatctcagg gaaagngang gaacctgcaa gtgnggnata anagacctga      60
ctcctganng ttgtcttctg accacatata cacaatattg taaataaatg                110

<210> 363
<211> 566
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(566)
<223> n = A,T,C or G

```

```

<400> 363
gactgaggtg gggctctttct gattgatncc ngaanggaga cngacggang tgaggctcnc      60
acatgagngg aagctgnecat tcccgngagg tgctttcttt agtgagaggn agacagaaaa      120
tccttttctt tctatggaac agnagagccn gaagggggcag gttcatcact caagccagga      180
aaacatctcc gnttcactga ccggcgccag gcctcacagn ttgggagaag cgacctacgg      240
nnnggaaata gcattgctct gcatgcttat gggaaactgtt agaaaggacn agaagngcag      300
aaccctgctg gagcccgatc cagccagctg ctgaattctc catccgcaag nctccatcct      360
cactcctctg aactggcgct gccagaggca ccttgggaat nccagcaggt tcctgttgca      420
aatggccctc accaccaact cattgnctct gcatgcacgg ntccctcccag gggctggcgt      480
taaactctgga ctcaacttaag gggntagann nggngnccta atccctttat tttgggnaag      540
gggccaagnt actaaacacc cttgac                                566

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<210> 364
<211> 450
<212> DNA
<213> Mus musculus

```

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<220>
<221> misc_feature
<222> (1)...(450)
<223> n = A,T,C or G

```

```

<400> 364
actgagggtc tgagtcacan gcgcctttct tggggaccct ggnncgctat cattggnaac      60
nganagnnca ctncnctag ctnatganag gagcanaacc ctcggnctc tgctggagtc      120
nactgnggc atntagctca gttttctgtt ncattntctc ccttantact gaanattcct      180
tctgcattca tggcaggggc accagccatc atagacactt gcctnggtat ccggnnttgc      240
tgnagggncg aagngcttna gngacacatg tggctgttgc cnttctttct gcaccccanc      300
tcccaactgt tcccaccttc aaccctcttt cccattccaa cgctgctctg tcctatagct      360
tcacaaaaca nggagcgtgt ggggctgang tcaggactgt accttgggca ctattcctta      420
tacaaaatat taaatatttt ttttcctcag                                450

```

```

<210> 365
<211> 119
<212> DNA
<213> Mus musculus

```

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<220>
<221> misc_feature
<222> (1)...(119)
<223> n = A,T,C or G

```

```

<400> 365
ggagaatctt gaaactctcc catacataac acttcaagcc aaactggcag cactgaccca      60
atctctaaat taagcgcang ngaaatgaaa tcattaaaaa aatatatatt tcctgaaaag      119

```

```

<210> 366
<211> 183
<212> DNA
<213> Mus musculus

```

```

<220>
<221> misc_feature
<222> (1)...(183)
<223> n = A,T,C or G

```

```

<400> 366
ctatgatgac ctgccangat tctcatatga gcatggggtc ancacctgca gatgacctgg      60
tccgagangg tgggaccgat agggaaacctg ttaaatcctt acactccgaa gatananctg      120
tannaaattt aanagnttng gctnngnntn nttntggaca gcttgccaga agtgggggtg      180
gtg                                183

```

```

<210> 367

```

```

<211> 385
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(385)
<223> n = A,T,C or G

<400> 367
aaggaacatc aacagcagcc ctaccgagaa cgcanacaaa cttctcggtc tngngtgtct      60
cctcagttgt tcagagcttg agttttgctc gaggatgatg agacaaggcn ctaagagggg      120
aaggaggagt gngctaaggc tcctgccact tntctccgnc ttnagtccac angaagcatt      180
gtaagaaggg ctgaanaaca agctgtgctt ggnccctgaat actggngact tgaggattcc      240
atctgtttca ccaggcgtgt agggaggccg ttttagcaac atagcttcct tagcagtact      300
taaagacttt tctctgcatt ggtcatgtgc caagttacat tttgaacatt ggggcaggng      360
aaggaaggac agctttggca cctgg                                     385

<210> 368
<211> 160
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(160)
<223> n = A,T,C or G

<400> 368
tgctcttctt tggcaatcac agcatgttta tttatgaact ggcttgcttg gaacctgatt      60
ctgacatctg nggttttttg ctgaagaggt taattttttc ctttttgntn ggnttgcgaa      120
cctgggtttt ggggagggga gcacaaagga ataaaaacac                                     160

<210> 369
<211> 145
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(145)
<223> n = A,T,C or G

<400> 369
atcatctatc gaatgcggac tcacccagtt ctcaacggng ctgcctgaga gagacccttg      60
aaggcgggat ggcgtgtgat aagggcagag gtcttgcccc tatcctgatt tcagaaagac      120
agcggggaga ctcagaaaaa aaaaa                                     145

<210> 370
<211> 205
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(205)
<223> n = A,T,C or G

<400> 370
cacgcgtgac atcactctgt caatcacccc aagtccactc aagggacaag aaactgtggc      60
acaccaccag aagttttttt gtttttgttt tttgctgnat ttctttctat tgagtcccca      120
taaatacagc tcaactacac aatataagac agaccaatac atggtgtgtc cttaataaaa      180
aaaatctttc accacaaaaa aaaaa                                     205

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<210> 371  
 <211> 375  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(375)  
 <223> n = A,T,C or G

<400> 371  
 gtcctcctga acgttctggg acactccact ccatcacggc taaatagtcg cagggcgtgg 60  
 ccatatgagc anatacacagn taacgtaacc agtacctgtt gtgaggaggc ntggattgga 120  
 taaactgcag gnggtagaag atccaatccc actctcccaa aatactgaac aaatttgntt 180  
 atttctgggg tgggagtgan acaggggtctc tccccgtact cctggaactt aggaacttat 240  
 tatgtagact aggctagcct caaactcaca ggagtgtctg gatgtgccac catgcacagc 300  
 cccaaattcc tttacacgaa tcttgagcgt tttataaata caaagcggag atgctgcctg 360  
 ccaccaaaaa aaaaa 375

<210> 372  
 <211> 360  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(360)  
 <223> n = A,T,C or G

<400> 372  
 ccgtgccaac aaggatgcct tggctgaatc acaagaacga gtgccctctg catcaagaaa 60  
 tatgggaaag ngcccaaccg agaacatcag gctggccgcc cgcatcatgt ggcgggtgga 120  
 gagagagggc actgggctca cagagggctg nctgggtgtc cgtggatgac ttacagaacc 180  
 ancgtggagc actttgggga ggaggagcag aaggaactcc gagtagaccg nggacaccgt 240  
 tcttgacgta ctggccacca cagagccngc agttcagcat gcagtatatc tcacacatct 300  
 ttgngngnat caactgcaac ggtttnactt ctnanntgac cagagagggc tacaggcagt 360

<210> 373  
 <211> 362  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(362)  
 <223> n = A,T,C or G

<400> 373  
 actgagattg acgggctaga ggaaaagctg tccccgtgtc ggaaggacct ggaggccgtg 60  
 acctcccagc tttacagggc agagctcagt cctgaggaca ggaggtctct ggagaaggag 120  
 aaacacaccc tcatgaacaa agcctccaag tatgagaaag agctaaagct gcttcgacat 180  
 gagaaccgga agaacacgct cctctcggtg gccatcttca ctgtcttcgc cctgctctat 240  
 gcttactgga ctatgtgagt cagccatctc cagccactan aangacgtgg taagtgtctt 300  
 cttctgctta gtaagagggg caataaagag ccccanagtc tgctgtcttg caaaaaaaaa 360  
 aa 362

<210> 374  
 <211> 390  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature

<222> (1)...(390)  
 <223> n = A,T,C or G

<400> 374  
 gctcattcaa tcaggtgagn tactgnanaa tatctccagg ncaaagntnt tttcnacaat 60  
 ccccttngga aggtgtttcc tattagcaga tgactatgga tcnctggcag cctctggatg 120  
 ctctctcgga angctcatg gcgggggcat attgattgtc tttcaattaa ttgcatntgg 180  
 tattttttcat ttatcaaaag caaaataacnt gtnattaact ctgaagcaat acagtccagt 240  
 ggcaagagat ccctgtctgt tgctgtctgt gctgtctgctn ctctggagat aagtcagcgg 300  
 gaaattattc ttacaaggaa actctaggat ggtaggactt ttggaccgta ttaattaaag 360  
 agaataaaaa ngaattaggg gaaaaaaaaa 390

<210> 375  
 <211> 119  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(119)  
 <223> n = A,T,C or G

<400> 375  
 cctgcagact cacccgaaan atccanactg accaanggaa tactaangtc cctcgtcttg 60  
 gtgatntnca gggcgtcaat aataaagaga gagcagcagt tgggggaaaa agaaaacaa 119

<210> 376  
 <211> 284  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(284)  
 <223> n = A,T,C or G

<400> 376  
 acctttcttc tttttnaata cactcacagt atcanaacac cacggtttca tttactaagc 60  
 tctangagac cattntgnct gtggaggcaa ggggcatttg gncctgacct angtgaacag 120  
 ttgccttaaa ggggaaaaaga ttncagcag ganggctcag ngtttaaggg gcacttgcag 180  
 ctcttgcaaa agncctgggt ttggtcccca gcgccacat agcagtcaca actattccta 240  
 actccggngc cagagtctct gaaccctcct ctggcctcca cagg 284

<210> 377  
 <211> 255  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(255)  
 <223> n = A,T,C or G

<400> 377  
 cgtttttcct aaatattgan actggcttgn atcaagacac acagnatatt gttcacaagc 60  
 atgtaactat ccaaaagaag tcttataaat attatgagca tggcaaaatc atccaggaat 120  
 acacccaaag tgtactttac caagataact tcagggtatc acatgttgag tcatcaaacg 180  
 taaacagaca tgaaactgga aacaccagag aaccttgcaa atataaaaaat tgtgtaaaact 240  
 gtttaaaaaa aaaaa 255

<210> 378  
 <211> 110  
 <212> DNA

<213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(110)  
 <223> n = A,T,C or G

<400> 378  
 aaatctggaa cctggtgtcc tggccatgtg ctgaatgcac gcacagcaca gctctggnat 60  
 ctgttttaaa ttatccatta aaataagtac agtcctggaa aaaaataaaa 110

<210> 379  
 <211> 210  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(210)  
 <223> n = A,T,C or G

<400> 379  
 ctgctgtctgg gatctgcctc aacgccttgn gagtcacccat cnacannatc ggagaatggn 60  
 ccctccgctt ctccggctgt ntggtcactt nnatctttca gnggnattnc ntangctaata 120  
 caaatggacn ggaccancat tttacttgga cggacacccat agnacctacc tcttctnctg 180  
 nggtctatct aggggggttg ggtgggggga 210

<210> 380  
 <211> 112  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(112)  
 <223> n = A,T,C or G

<400> 380  
 acggggccatg atgaaatcat ccccgangag catccangaa ggngaagctg agngagcgng 60  
 gggaggtgtc caccttcaca gaggaagnta tanatcgaac cttgtcaagg ta 112

<210> 381  
 <211> 108  
 <212> DNA  
 <213> Mus musculus

<400> 381  
 ccctctgctc tcagccctct gggattttgc ttgtttgctg tttttgttta gttcagatct 60  
 attttgtttg tggtttgga aactttcagac cgaacagaga aaaaaaaa 108

<210> 382  
 <211> 181  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(181)  
 <223> n = A,T,C or G

<400> 382  
 catgcataac gggcatccag atgangaatc cgtgaacntt tngactggag ttgatcncta 60  
 acccaatgga ctttncctgt gctgaccaan cctttcatca caagcattat atancggttg 120



ntgnccccctg naaatgtnan canacacgaa gngagatacg ctgtatacga ccactgtgca	180
c	181

<210> 383  
 <211> 210  
 <212> DNA  
 <213> Mus musculus

<400> 383	
gtgctagagc gaatccatta taacccaggc agaggaaaag gccgatttcg tgatcattcc	60
ctctgaagga atagagaaca gaacagacga gccagactct ccatcatccc gagactggag	120
gcctgggagc cggggaacct acctggaagc cacatgggaa gaacagctgt tggagcaaca	180
agaacactta gaaaaagaaa tggaggaagc	210

<210> 384  
 <211> 487  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(487)  
 <223> n = A,T,C or G

<400> 384	
agctccgacc acagcgtcca gaaacagacc ccaaccggaa gaggcggatc ccgatagaca	60
ccaaccggaa gaggcggctc cagatgagca ggagagaggc tgctctaccg gaggtcccag	120
gtttgattcc cagcgcccac ttggcagctc acaactatct ctaactcgag tcccaggaca	180
tccaatgctc atctttgaca tctgcaagca ccagacactc aaaactgtac agatggacaa	240
gcaggcaaaa gaccccaca cataaaatac gtaaatcgtt ttaaaagtag cagaagaagc	300
anagttaatt agactgaggg acagatagga aaggtcagga gagcatcttg aaaatacact	360
tacctcagct gcaaagaccc ccgctgcagc gcccccaact tctgagaggc agtaagaagt	420
gttgaaactt gtccctnagg ggtatttgac tctaggatgg gactttcttt caagcattga	480
aaaaaag	487

<210> 385  
 <211> 431  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(431)  
 <223> n = A,T,C or G

<400> 385	
cacgaaacaa attcagnacg gcagctcctt ttggggccta agcactggag acactcctag	60
aagttttctgg aaatctttgc tgttggccct gaaagacctc gacctctcgt octgagcgct	120
atacagaaac ttcccgtaga ggcaccgtgg gtcaccattg gtggatctgt tgtatgcttc	180
ctgtgcctcc aacatgtcaa ggccactcca gcctgtaagt cactcggacc cagggaggct	240
tgccaatagc caaaccaaaag aggcctgtga ggctaagcca ccagaagcca ggcacctatc	300
acatctatcg gctcgggaaa atgtcccagt ggcntgttnn gatccanctc ttgaaacgga	360
tcctaccggg aaccnaatcg tacacaacaa aaaggcggcc gacccagacc atcctgacct	420
tgccagcatg t	431

<210> 386  
 <211> 217  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(217)

<223> n = A,T,C or G

<400> 386

aggctggcac	ggtccgacg	tctgtgtgga	agcttctccc	tcccttctga	gcttctctag	60
actccttaca	gcgcacaggc	acagacacat	cacactgcaa	tccagggtat	gtctacatnc	120
gagctgcnc	gnatanactg	gangggcttt	ggangggatc	cnttgncaga	gcacncatgg	180
tgctggatta	aaatccanct	acaggtaaaa	aaaaaaa			217

<210> 387

<211> 284

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(284)

<223> n = A,T,C or G

<400> 387

acgcatggac	acgggnnggt	ctactacatc	accacacggg	cccaggtttg	actccataca	60
ggacctagt	cnggcacata	catggaagt	aatgatggc	tgtgctacnt	gcttacggcc	120
ccttgtagca	ccactaaacc	cccagacaca	tagantntgg	ncaaggatgn	cgggggagat	180
nagacctgga	acttcttngc	acttngaact	gcaagcttgg	gcaccntntg	cttanggaga	240
tnanaactg	ggcacttngg	nactgcagca	caaaagagt	ggaa		284

<210> 388

<211> 774

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(774)

<223> n = A,T,C or G

<400> 388

ccccgcctgt	gtatcaccac	cancgtanca	catgcacgtg	tgcgacaggc	cttacnttat	60
ggctcntccg	acccactcc	ccggattgat	gtcccnngct	ccggacaanc	tgcaggccng	120
aaaccttcag	gaaactgaaa	ccnccccctg	ngggcagcct	cccggatnac	ttcctccnaa	180
tccttcccca	gcaaattggac	ancnttcagg	gtcaccctcg	gggctccnnc	cctatgagtg	240
gagagggagc	ccacctccgg	cncagggcc	catggcctgt	tacnnanaca	gnccctngaa	300
ncngtacctg	gaaaataaga	gaattgccct	cttcntgcan	aatgaggaat	tcangaaaga	360
gctgcagcna	aaccgggact	tcctcctcgc	ccngaaaana	aaccnattga	natgtgaatc	420
ccagaaatcc	aatccccctn	gcggcggttg	ggaaatgacg	gtgggtttcc	ctcctctgtc	480
ccggaacnt	gantncctcn	naaaagngt	gnangatncc	ttgtgccngg	acancttnta	540
tnctgggna	attctanct	angatctntt	tgaantcncn	cancggtngt	aacaaaaccg	600
ttttingaat	tgaaagaaan	aanttttccc	tgntanttt	gatggggntt	gctgtnatnt	660
gaagncaggc	tcccggtnta	antggnaang	gctaggttta	ctaaaaaaa	attcggtggg	720
ttngcnaaan	nggatgntgg	gttttgggtg	cnaaaaggcc	gaaaaaaaag	gaaa	774

<210> 389

<211> 373

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(373)

<223> n = A,T,C or G

<400> 389

ctatTTTTtg	aagaccttcg	acctccatnc	tctggctgca	tttctctgtc	cttctggnaa	60
catcgggagt	ccaccagang	aggatggagg	cacggcggtg	gacattcatc	atgggttggg	120

cacccgcaca	cngtgtgcc	tggtggcttc	acaatggg	ttncngtct	gntgtgtgat	180
gcactcttag	agcaagctct	gtggctcaga	gggaangaga	cgggatcact	cagaccctcc	240
cactccatat	ggccagtgan	gcgtccagga	agacgcttcc	tgctagcgtc	atcataaagg	300
ggaacgcaaa	gctctcagtg	ctttgccctg	agccccactg	gatgtgggtg	gtatgcaaaa	360
ggaagcttaa	cct					373

<210> 390  
 <211> 388  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(388)  
 <223> n = A,T,C or G

<400> 390						
ctctaccac	ttgtacataa	tccagcatcc	agcagaggaa	agcagagtgt	tgcgcacagt	60
ccctctgcta	gcagcatgcc	ttccccaga	cagatgcaca	gtcaagattg	gccgccgctt	120
cagtgaagag	cgagatgttg	aacttgcaac	tgtttgccgg	gactntggta	cattaatatt	180
atatccaggg	gctgaagcta	ctaattngga	anaattnata	ttanattctc	cngtttatcc	240
ttccacaatc	atcctcattg	atggtacatg	gagccaggct	aaggacattt	tntataaaaa	300
ttccttggtc	cgacttccca	aacanataaa	tgcccttgctc	agtctcatn	anaanaagct	360
tccttctgca	gcagatggaa	acattttac				388

<210> 391  
 <211> 122  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(122)  
 <223> n = A,T,C or G

<400> 391						
cctgatggac	aacatgctgc	ggatgccacc	ggngatgaga	gcagggtttgc	accgccagct	60
tnngttcgtt	acggcctttg	tnnttgctgg	atacttttat	ttaaaacggc	aaaactatatt	120
gt						122

<210> 392  
 <211> 184  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(184)  
 <223> n = A,T,C or G

<400> 392						
tcccagaaca	tggtgctgct	tatatacgnc	cnntgatang	cgtgnctcac	accngattg	60
gttatnctct	acgcctcatt	tgcatgttcc	tcatntggng	ggctactctc	tgtacctcac	120
anagcctcat	tatcatacct	catttgcatg	tctcacatgn	ctattggggc	atacttttac	180
agct						184

<210> 393  
 <211> 476  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature

<222> (1)...(476)  
 <223> n = A,T,C or G

<400> 393  
 gcagccacca ggcattctgac cctgaggaaa aagggaagcc tggcagcatc aagaaggccg 60  
 aggaggagga agaaattgac attgacctga cagcgccaga gacagagaag gccgcccttg 120  
 caatccaggg caagttccgg cgattccaga agaggaaaaa ggattccagc tcctgaatgg 180  
 ccaggcctcc ccttaaccct tctacttctc ctntgccttc cacagctctg actctcacgt 240  
 atctcattcc ttcattccctc tagcctctcc ccaaggcaag cttaaccctt atatatctt 300  
 gtctcaggct ctcttaagcc atcacagtag tagaggcaca aggatgcaa ggtgaagact 360  
 ctactgtgta gtcactaggc taagggtgga tcagtccatt taggagaaca aaaggttttg 420  
 agatgggaaa ttctccctt tgcctaattgc taagggcagg agggggcaag ccctca 476

<210> 394  
 <211> 184  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(184)  
 <223> n = A,T,C or G

<400> 394  
 ccttacagac tcaagactga tgagtaagga cagagtantn ntngcccgn aagaagacc 60  
 canactaccc tagaacagag atggcnnacc ttctcctgat cgttcctgng ttgtgccact 120  
 gagggagaga ggggtgangac acacanagcc atcagggtan gcnggagacc ctgaggcccc 180  
 tctg 184

<210> 395  
 <211> 339  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(339)  
 <223> n = A,T,C or G

<400> 395  
 cctcattcct gacttcagtc tcacgtggga ccggcccttg gtgctgacag catgggggac 60  
 tgnactgnag ctggcatgna tanagccanc ctggnttgcc cactggctga aganagcanc 120  
 ggngggcgaa gcagananng agngngtggn ttctctctga caatcttttt gggccactc 180  
 ccacgatgcc agcctccaga agagggaagc tgtgtgggag acggtgtgta caggccccga 240  
 ctctggcctt tgctctacgg agctggcgac ctctgtgtgc acaggtgaca tctagaggat 300  
 ccggggcggtc ctcgatcagt gntggaaaaa aaggggtct 339

<210> 396  
 <211> 289  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(289)  
 <223> n = A,T,C or G

<400> 396  
 ggaggggatga ccaggcgtgc aaaagctgac gcgaggatct gaaaccagat gaccgggaa 60  
 agggccngnc accaaaagtg acctcctttt ttaacccttt atgtcaaaat ataattggct 120  
 aatgcaagag tctaccctgt taccgncac tttttgttcc catcctataa aaatattgta 180  
 gaaatattgg acagntccccc ttccaggaatt cggatcagag gggggagctg cccacctccc 240  
 tcagcgctaa gaaaataaaa cttccatttt taagcttcaa aaaaaaaaa 289

<210> 397  
 <211> 264  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(264)  
 <223> n = A,T,C or G

<400> 397  
 agactgaggt gttcttngtg nccgacctnt tcgagactaa nacgagcctc tcaactgcccg 60  
 cccctgcgat caggaggagg gatcctgtct cccgtggaca tcatcgacag gaacaatcac 120  
 cataacatgg tgtagatgct gcggcctccg gagcgctttc tctgaagcga ctgcacgttc 180  
 ctgctgctct ccgatctcat cagacagtag aatgtaggga aaagcttttg cccgatggat 240  
 tttgaaaaca tttaaaaaaa aaaa 264

<210> 398  
 <211> 326  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(326)  
 <223> n = A,T,C or G

<400> 398  
 aatactttta gacctactgg aacctcactg ttataggcta caccttgagg aaaccatcat 60  
 attgaaagac attgtcaaag ttcaagaaga aatgaaaggt ctatgaggaa caaaaagtca 120  
 aactgtgaat gcattgtgga nggggggnat cttttactct tctattaata tatgnatcat 180  
 gtgtcacaat tgataaaagc catgttagca tagggatatt gaaagaagca atgtaccgct 240  
 ttctatccca gaactgtgag aaaattgtca gattctatct ttggtagaca ttctgagtat 300  
 gataaaagtt tgcaatgaaa aaaaaa 326

<210> 399  
 <211> 216  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(216)  
 <223> n = A,T,C or G

<400> 399  
 tgtgttacc atggagtcan gacacggncc ccggagcggt nccaaaccaa ncagggtcccg 60  
 ttgattaaag tcaaagctca cntacaggag gcntgngccg gaggaccaca ggcagggcag 120  
 ggaggtattc tgggacttct tgaatagcta ggantcagtc agaacttgaa tttcgacagt 180  
 tttgaagacc gtctgtgccc ttcaatcaaa aaaaaa 216

<210> 400  
 <211> 244  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(244)  
 <223> n = A,T,C or G

<400> 400  
 tggccccgc acatggtgcc agctcttatg actgncncct gacttnatca tatccctnaa 60

gatanncaca gtagccttga gcttgtattg cgcanangcn ccacanatgt aagatcanat 120  
 natgtgacna tgtattnctg agccaacgaa ctgngcctat gtggactggg ctgaggggga 180  
 gtggactgga ggggataaaag ggggatggcg gagagaggnc agcanttctt tttcctgcac 240  
 attg 244

<210> 401  
 <211> 124  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(124)  
 <223> n = A,T,C or G

<400> 401  
 tgagggcatg ttgagtcggc tgcattctagt ngatccaacg agtaggagtg ttggctggta 60  
 agctgggcat ccgtgtatct gagtttctta gcaataaagt gaaatgcaat cttaaaaaaa 120  
 aaaa 124

<210> 402  
 <211> 113  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(113)  
 <223> n = A,T,C or G

<400> 402  
 agtgggaagct tgtgancatg aggagctnng ancatgnaga gggaagcnan acnggagggc 60  
 tttntgcccc agnngagaga gatcgcccgg caggatgaagg cctatgagaa gca 113

<210> 403  
 <211> 104  
 <212> DNA  
 <213> Mus musculus

<400> 403  
 atacatgcct cacatgtgaa gccagcccc ttagctgaga ccagaattcc aggaaaccac 60  
 cctgtctgga aggcccaggc tacggagaac cctctgaaag tgaa 104

<210> 404  
 <211> 141  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(141)  
 <223> n = A,T,C or G

<400> 404  
 tgttcccatg aacatgcaga aagaggagnn cgtgagtgtc tgggtccggg accccaggat 60  
 tcanaaggag gactttnggc actcttatat cnactatgac natntgcctt cacacnacag 120  
 agcagaggag acttgccttg t 141

<210> 405  
 <211> 101  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(101)  
 <223> n = A,T,C or G

<400> 405  
 ttgacccttg catggcagga gaaaattnan tgcttgagtn gttctctgac ctccacatgc 60  
 ggtcctgnta catgggntgt ntgcatacac ataaacacac a 101

<210> 406  
 <211> 160  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(160)  
 <223> n = A,T,C or G

<400> 406  
 gcctgaggcc caacctgcct gaggccaaac cggntctctt ccaagatttt cgggagttat 60  
 cttcgagagt tcccactaaa aggttgatct gtctacttca aaagaacttt acttgtttag 120  
 ggatgggcct cccctcttct ttataaagtg tgtttgctgg 160

<210> 407  
 <211> 185  
 <212> DNA  
 <213> Mus musculus

<400> 407  
 ggaatgcctg aggactctgt cccctctgtt taaagtctcc aggttagtaa gccaggaggg 60  
 agcccgccac ggccacctag tcagcaccct tccctgcccg ccatggatca cgatgagcta 120  
 ccccgggagg gctgtggggg gggggcaggg ataggtcaag gggaggggat ggcaaaaaat 180  
 aaaaa 185

<210> 408  
 <211> 347  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(347)  
 <223> n = A,T,C or G

<400> 408  
 aagagatgga ggggcaagtt ctgagtgatg caactgctgc ggantaggag ctaggaacca 60  
 gttttacatc aaggaagtta acaccgtgtg taaagaagat gggcagtata gcagtccaca 120  
 caagtggcct tggtgaaaag actgccaggt tgagtggcct ggtttggagg aggtgtnttt 180  
 nttaacgctt nctccagctg cagtggngct taggattctg ctggtacatg acgcacaatt 240  
 ctgaaactca ctcatgactt aagcactgga gaccttcact ggcagactgg ngctggcgac 300  
 gctgggaggc tgnccgctgnt gcactctncc ccaccgcct accacag 347

<210> 409  
 <211> 251  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(251)  
 <223> n = A,T,C or G

<400> 409  
acgattcagg accatnagca ccatnagaag ctcttgcctt gtnagcatca ttntctcccag 60  
ncctcaaacc ttgtcccttc tgggnaccac ncgagatgcc cctacgcgag aatanncngg 120  
ctntnctctg tctctncaag nontgagncc ttngnggggg agaactttat tnncttcagn 180  
tggtgtctgn cctccacatg cgtcctgtng catgggtgta tgcatacaca taaacacaca 240  
tgcacacgtt g 251

<210> 410  
<211> 150  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(150)  
<223> n = A,T,C or G

<400> 410  
tcacagtggg cccttggatt accccccctt ttttgcattg nttgagtacg cttatcacaca 60  
tattgccaaa nacntntgaa taaagagatg ctcaatattc ataacctgaa ctattacagt 120  
tcaaggacat tgctttttcca aaaaaaaaaa 150

<210> 411  
<211> 241  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(241)  
<223> n = A,T,C or G

<400> 411  
ggcccttaat acacacacgt gcttntantt ggtataaata acgtnattgn gcagaccaga 60  
aacntgagac aacttggagg gacttgcagt nggtttcatg gngctgaggc agtgaaaacn 120  
tcacccactg ccatgggttt gcaactataag cgcctgcatn agtaatnttt aaaaacatnt 180  
ancacagtaa nantttcnaa antcttttct atgcnagctt atctngttag gcattatttt 240  
a 241

<210> 412  
<211> 117  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(117)  
<223> n = A,T,C or G

<400> 412  
cctgcaacat cctggccttt tctgcagaaa gaactganng cttinggaaa ctgtaaagct 60  
tacctctgng gaaaaacccc aaagcattgt ttcaacacag gtttccttaa gttaaaa 117

<210> 413  
<211> 125  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(125)  
<223> n = A,T,C or G



<400> 413  
 agtaccgtga agacatggcn agtccaagaa ccacacctac ctacacacta ttngcagatg 60  
 accagtgtcc tgtgctgttt ttacaaataa acttgaggca agatcaaaaa aggaaagaaa 120  
 aaaaa 125  
  
 <210> 414  
 <211> 171  
 <212> DNA  
 <213> Mus musculus  
  
 <400> 414  
 gaactgagga ccagttccag gtaattgcat ggctgctgca ttcccgtgag gcccctgtga 60  
 gcggcatggg aaggcttctc catcaacctc tgccctcccc cagggtgcctg ctcttgatca 120  
 aaccaaataca aagcgcaaac aagttccagc gggaaagttt aaaaaaaaaa a 171  
  
 <210> 415  
 <211> 415  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(415)  
 <223> n = A,T,C or G  
  
 <400> 415  
 aactgagctc ttcacatatg gtgctaaaga tgtctactgt canctcanac ctgtctggaa 60  
 gtnntntcag aagactaatg cgacctgaan ttcctgggga gggtanagtg gctgcagccn 120  
 cncctgtgta nccgattnta tatngctgat anattgacta caagcccgaa aanggnataa 180  
 nggactgtgg gnncccaggn atggagctga tttcaggat gnnactacca gctctatcan 240  
 catttngac tgcanacgac tctaattgctt tggacttgan tgcattctac ccgccngacc 300  
 tttccttatg tatctgaaga gaatnccctt gccnctctg cttgcaaccg ctctgcaanc 360  
 tctgatctca ccgaagttnt nggngttcca tattttntct attcccctac aagtt 415  
  
 <210> 416  
 <211> 356  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(356)  
 <223> n = A,T,C or G  
  
 <400> 416  
 taaaaacatg cccctgaccc tcttgccaaa tgagtntctg ntcattgaggc ccaccaagat 60  
 gaaccancca aggaggntc gtgnnctgcc ctgtacgaac antgactgct gacngtgtga 120  
 tgagcaagct gagggtnctg aaatgttgct tgccaangnc catgaaggaa gtggntcac 180  
 ctggtcaccc canganggtg gcanactggc ttgctgganc atgctnngcc agaattctgt 240  
 gancctctcg gaccncttct caggccngga cttattnaac ctancccaag angatattna 300  
 nataancccc cantgtcccg agtcttntct ganaatgngt ccaccaacat cttaga 356  
  
 <210> 417  
 <211> 346  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(346)  
 <223> n = A,T,C or G  
  
 <400> 417

cccggaacca	ccctttggac	tccttgana	agcaaatgga	aaaggcgggg	gtggnacaac	60
ggggntgccc	tatncctggn	gnttgaaatg	atagttagcg	ttgttgcccc	atagcctgtc	120
attggacaca	gtaatgattc	tgggtagaac	acagagcttc	cccattgttg	aaagcttagc	180
aggatccttg	ctacaagttt	atttacctct	agaaacaagg	tcagtcatgc	agaggaagga	240
aagtaaccct	ttccgtgcca	gacactgtac	tgagtgtctc	cctgtttgag	ctcctgcagt	300
ctaattgctt	cttaacactt	attaatcaca	ataggaagct	gggtgt		346

<210> 418  
 <211> 119  
 <212> DNA  
 <213> Mus musculus

tcgggttcaa	acgtttgctg	agagatgccg	tggttaacat	gacgccacaa	tggaacattc	60
ttcccagagg	gtagaagaaa	ctccgctgta	gagctctgct	gcataaggcc	acacagtgt	119

<210> 419  
 <211> 167  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(167)  
 <223> n = A,T,C or G

aactgagagg	ccaacagaa	acgnagagac	attactgcnt	gtgtccatga	ctgggacnng	60
actctgtncg	gntttccctg	ggaatccacn	agngatcatg	ctcttcnaag	aaccaatgct	120
atgcaacann	cncctcacat	ntcgagtga	catcaatgtg	gaatgag		167

<210> 420  
 <211> 313  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(313)  
 <223> n = A,T,C or G

gaaaagggtc	atgcagnggc	ctgagggtgg	aggnataccg	ntaagccttn	cacgcgactg	60
antgngggnt	gaganaaaact	ttcntaatng	gatnntganc	atgccncttn	atctctnnaa	120
gncttgataa	ngcctannct	ctatntctaa	caggctntga	gtagannacc	tcatgccact	180
gtccatncat	tgataagagc	atgctacnng	anagcgccat	ccttttgatt	cccttctcca	240
gctttctctc	ttaactgtat	gnaaacactg	caaatgaaga	acaccctggc	taatnctaag	300
gtaaaggctc	tga					313

<210> 421  
 <211> 196  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(196)  
 <223> n = A,T,C or G

gagctgctga	gagccgacng	gaagcttntt	gaacnggagc	cactgagaat	ggacacttgg	60
atnccacttn	acccttggaa	aacacacgat	tgtattoaan	gagggagaa	aagngantgg	120
tattgatggg	atcttggttt	cagtanttaa	gaaagtcnaa	cgngaattga	ncgagacccc	180

ttgtatgccc aatgct 196

<210> 422  
<211> 272  
<212> DNA  
<213> Mus musculus

<400> 422  
aactgagggg ggagggcaag gtttggagac atctgaagcc aagtcctgcg ggccacatga 60  
gatcttttgc ccattttccac cctgctgttc agtcctggtt atcactcacg gccagagctc 120  
ccgagttacc tttgctgcta tgccagcccc atgcaacaga ctgtccaccc cacggtcagc 180  
ctccacaaca cccagcaacc cggtagaaac aaaattctag aagcttataa ttaaggagtc 240  
ggattttacgt gtcaataaat tttcagttca ca 272

<210> 423  
<211> 459  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(459)  
<223> n = A,T,C or G

<400> 423  
aactgaggtg gggctctttaa ccctatatac ccttggccgg ctaccgggaa gactgcgtct 60  
cctgacgatc gtaacgaana tgtaccngtg ctttccttnt ganagtnaan nccgccctaa 120  
tatgtgcanc angctaaccg ngnggaanct tgcctgccag aaanaaancg cctgtngtnc 180  
tattanggaa agccgngnac taangtctgc ttatgncaa ngcccagnaa tgtccatttg 240  
agatccanga gccacnaaga aggggggcta cttggccaac atggctgac acgtgcctga 300  
ggcatgccct ntgacctcac cagngtanca cagaaccatc catacaggcc ttgggcagct 360  
ggaaatttac actgntagct cnoecatgtg ctaagttagg aactggattt ggattggctt 420  
gggntggact cttattttcca agactggtga gggaaacac 459

<210> 424  
<211> 277  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(277)  
<223> n = A,T,C or G

<400> 424  
acaaatctgt ggtcataaag acagacagtt tnaatgagaa gacactgcaa atgtgctgga 60  
agacgcagct gtcctgagag ggcacggngc actgncggtt acaggggtaca agtatntgtg 120  
accancgaga cccattagtc cacactgctc gtcccgtgca tttttcctat ttaaggcaaa 180  
aaaaatcatn gagactagag tacttttgaa tttctagaag ctcccacctt attctgaaat 240  
taaaataaaa cccgtgctgt tgggtgtaaaa aaaaaaa 277

<210> 425  
<211> 117  
<212> DNA  
<213> Mus musculus

<400> 425  
gggctgcctg ggctaaatag tggattcaag accagcctgg gctacataag acactgtctc 60  
aaacaaacaa cacaaaacat catcattaaa aacaacaaca ggagtgaata aaaaaaa 117

<210> 426  
<211> 124  
<212> DNA

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<213> Mus musculus

<400> 426
aacatgagaa agtatagctt ctaccattga gctcaatgca ctgtgtgtga aggcgctggt      60
tgctgctgta gggagagaat acaaatggga caataaaaga ctccgaacca tggaaaaaaa      120
aaaa                                           124

<210> 427
<211> 112
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(112)
<223> n = A,T,C or G

<400> 427
cggaaggcat gccaaacngc ttacgcttcc caaggcacia gatctttccc agcatgggaa      60
agatcctccc tccctccntt nttccacccat acactcaata aaataaaata aa           112

<210> 428
<211> 258
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(258)
<223> n = A,T,C or G

<400> 428
aacatgagtt cggccggtac tccgctctga tcatcggcct ggcatacggc gccaaagcgt      60
acagttacct anacccccnn ncagaggagg ngaggagaat ancagcnnnn gnanagaaga      120
gactanntga nttgnancgg ntngngagag aactggcagg aagctcaaga tgacagcatt      180
ctcaagtga ggcgcagcga gcttgctttt ctctagtcgt tgagaacgaa taaagcttca      240
ttgtgtgaaa aaaaaaaa                                           258

<210> 429
<211> 351
<212> DNA
<213> Mus musculus

<400> 429
ggaagagact gtctttgaaa ccaggaatct gagatgatgt tgagatggag atgacaggcc      60
tgcaaggaca agagaaaaca tgtagttctg tgagctctga tgtcaacctt cctggacaga      120
gcctgcacag gccctagggg gcagcataga gacctcattg agactagccc acagactgga      180
gggcccacaag gccaggctga tgtgggctgc tccgtcagcc tgccctcctgt aagggacaag      240
agcatcctct gataaggtgt gatggagcag ggggcctgag gatctctgtg cgccttctctg      300
ctgctttggc aacaataaat gaagagtggc tttgtagctt aaaaaaaaaa a           351

<210> 430
<211> 179
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(179)
<223> n = A,T,C or G

<400> 430
agtggaaagc ctggggctga aaacggtgag gctcagngat gggacaacag cctacngtcc      60

```

agcaggctgn naaangggga gaagctgntt gaagggnaag ngatccagct ggaggacggg 120  
accacctgcn nacattccacc angtgacgat acngaaagag tntttctcct ttgaagacg 179

<210> 431  
<211> 112  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(112)  
<223> n = A,T,C or G

<400> 431  
caacagaaac atcctacttg gaaatggctg cnggctcaga acctggaanc nngtagaann 60  
tagccctggn gtagntgaga aatccaacng ggtgggccac cagttataca cc 112

<210> 432  
<211> 137  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(137)  
<223> n = A,T,C or G

<400> 432  
tatcaactga caaaagnctg ggtgatatgt tctttctccc agngatgaag ggattntctn 60  
ctctagggtt nccctcagac cntgnanaca tctgnttttc atngaccatc ngccccaata 120  
aaggacccta actttaa 137

<210> 433  
<211> 400  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(400)  
<223> n = A,T,C or G

<400> 433  
ggctcttgaa tgctgggatt aaaggcattt gccactacca cttggctggg atctcttata 60  
tgctggacta gccactgcaa ctgagaatcc ccctccacaa tggcctntct tcaggacctt 120  
cagccctgcc acacagtact aaacctcagg tgnctctcat gacttcttca tgctttcaaa 180  
accaacacca tctagccgaa tcttacacat tacciaagntt ggctggcagc atgagatgca 240  
gntttggcca ccttgnatna cagcttttat gtgctgaacn ctggggagat aacccctga 300  
agattttacc ntcaggagat gctggccctc ttactgaact aatatttcan gttctagctn 360  
acctgcaaca atttgtatcg ntaaagcaat aaagcaaagg 400

<210> 434  
<211> 516  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(516)  
<223> n = A,T,C or G

<400> 434  
gactgagcat tcccgtgggt tggtatggct atcggtgga ccctgggttaa gctggtttac 60

tttgaaccga	aggatatcac	ggcagaggaa	gaacaggaag	aagtggagaa	cctgaagagc	120
atccggaagt	atttaacttc	taacactgcc	tacggcaaaa	ctgggatccg	ggacgtccat	180
ctggaaactga	aaaacctgac	catgtgtggg	cgcaaaggga	acctgcactt	catccgcttc	240
ccgacctgtg	ccatgcactt	gttcatccag	atgggcagcg	agaagaactt	ctccagcctc	300
cacaccaccc	tctgtgccac	gggaggtggg	gctttcaagt	ttgaggagga	cttccgaatg	360
gtaggttggg	cttgcccatc	ttcgaacagc	cagctctctc	atgtgatcat	agtgtgctca	420
tctcatgcta	agacctggac	cattaacctt	gggacctggg	catgtctgtg	cccnggggtt	480
cctcttccat	atgataataa	atatatgacc	ctttca			516

<210> 435  
 <211> 197  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(197)  
 <223> n = A,T,C or G

<400> 435						
tcaccctgag	tgacggatgt	gagataagag	atacatgcgg	antgtgannc	actcatcnca	60
gttttgcattg	gntntgnntg	ngananatca	catnctctnc	ctcntnatgt	ncctccggag	120
acggatgtga	gaaaagagtt	acatgcgant	ntgagtcagt	caacacgttt	tgcatgggta	180
agttaaagaa	ataaaaaa					197

<210> 436  
 <211> 264  
 <212> DNA  
 <213> Mus musculus

<400> 436						
gtgcatccca	ctcgattggt	tgaccgactt	cttgagcggg	tgagctcctg	ttggaagcct	60
tgctttatgg	cgctgtccca	gtgagaagcc	gcttttctgg	cattcgccag	cttcgggtca	120
catgcaacta	cttctcttcc	tgccgtctct	gctgggagtt	tgtgaagttg	tttattctgt	180
tacagcttgt	ttgactttca	cataggcctt	atagtctaata	acaattgaga	aaaagagaaa	240
atttatgacc	ttgaaaaaaa	aaaa				264

<210> 437  
 <211> 162  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(162)  
 <223> n = A,T,C or G

<400> 437						
ctaaaagagc	agcaaagaag	ttacnntgat	tttgagctcc	aggccctgat	gagttttgaa	60
gacaagtga	ggtacagtgg	gtgacagctg	tgtccttgga	cccagcaaaa	gctaataaag	120
aaaataattg	gaatttaaaa	tataaatatc	taataaatatc	tg		162

<210> 438  
 <211> 262  
 <212> DNA  
 <213> Mus musculus

<400> 438						
gtcgttggtg	ctgccagggc	gtcaataata	aaaagagagc	agcgttgggg	gataatgtcg	60
acatttccac	tcccaatgac	gtatatgtta	cagaattgga	cggctgaatt	tgaacagatc	120
ccttcgagaa	ttgagacttc	aggtcaactc	cacgcgcttg	gacctgtcgc	tgaccaaagg	180
attacccaat	tggatctcct	cagcattttc	tttctttaaa	aaattgggtg	ggattaatat	240
tatttgagaa	tacaaaaaaa	aa				262

<210> 439  
 <211> 125  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(125)  
 <223> n = A,T,C or G

<400> 439  
 aggccagggc ccttgtggga cccagcagct cattcaacat aaaagtatat ttttgaagta 60  
 cctaaagtat aataacctca cctattatgc caaaattaaa taatcangaa tttacaaaaa 120  
 aaaaa 125

<210> 440  
 <211> 101  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(101)  
 <223> n = A,T,C or G

<400> 440  
 ggacctggac cgctggctgt tccttctttg atcccaggca tgatttcagc ttgtagaata 60  
 aatgagaaat gcctgtnggt ttaattaaaa gaaccgcatt g 101

<210> 441  
 <211> 423  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(423)  
 <223> n = A,T,C or G

<400> 441  
 taacaactgg tggagcccag agccctgggc gaggatatgg ctgtgtgcct gaggaccttc 60  
 acacaggcac acagtgtctc acctgtcttc ttacggctgg caatgagatg gtgtcctta 120  
 caccgtggac cccccgagg gtcttntctca ccaccttcag ccggaagtg cctgaccgta 180  
 gaacttcatg tgtattagtt gctcctgaga agaggaagag ctgttttgat acccgatatct 240  
 ttcgaggtgt cagtccatgg tctttggctc cactgagtcc aggggtcacag caagcctaaa 300  
 caggatgggt ggctagacct gccgaggggc agacctcgaa gctcacagca gataggaagc 360  
 tcagagataa gactgaagac aagcttcagt gtacttacat ataataaatt aaatccttaa 420  
 aag 423

<210> 442  
 <211> 396  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(396)  
 <223> n = A,T,C or G

<400> 442  
 tctggctgtc ctggaattca ttatgcagag taagatggct tganactcac aagagatcta 60  
 actgcctctg nctcttgagt gctganatta aaggtgtgtg acaccatgcc taagtgtccc 120  
 aagtttaaac tttccagctt ggaagtaaat gaccaggaaa taatacagtg aggattccag 180

cagagatcac	ctccccaggc	atocctaactc	ccaaagtgag	agatactctc	ctgttatcac	240
tcaatctcca	tcgacgaagg	agccactota	ccactctggg	aggtgaacaa	cggaacaga	300
cacagaagca	gactgcccac	ctgatggggc	agttatgtca	atggatcatg	aacaagttga	360
gtcacaagat	ggaaccagga	aggcaaaggc	ccctga			396

<210> 443  
 <211> 217  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(217)  
 <223> n = A,T,C or G

<400> 443						
cttgaaggag	tacaggaacc	acccaaccct	gcaggtctnc	ttgtaccggt	cctggagaca	60
ttcccccaac	atcacctgcc	tgttacaggt	ctgcagcata	gtcaccacct	gggccatgat	120
tgcatctctc	ctgggaagac	ccatgccctg	agagcagtga	gccacctcag	cttctgtctt	180
agtctctgga	gatggccctc	gtggctcggt	tgtattt			217

<210> 444  
 <211> 184  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(184)  
 <223> n = A,T,C or G

<400> 444						
tcactgtcgc	cgcccacagt	gacgncnnc	acagaaagca	cacaccgtag	ttgcggacgg	60
cctgtggtna	agatgtcttt	gccatcccca	caggacggac	ggacnggant	ccacaagggtg	120
cgcagtngtc	nccgaggccn	gccnnganag	ganccgattc	ctcacaggag	gaaggagcac	180
gccc						184

<210> 445  
 <211> 185  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(185)  
 <223> n = A,T,C or G

<400> 445						
ccattgagcc	aaagaaaggc	caccccccca	acagccccca	cacctggata	anagcgccct	60
gcaagaactt	cttntggaaa	accttctcct	ngtgcaagtn	acccancct	gggcatagca	120
ccctggccac	cctgngagat	gccaacggag	acctgaataa	agactgtcaa	tcagcaaaaa	180
aaaaa						185

<210> 446  
 <211> 300  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(300)  
 <223> n = A,T,C or G



<400> 446  
 ctgaagagct accatttggg tgctgggatt tgagctcatg acctncnnaa gagnetgnnn 60  
 cgngctntt accnctnaa nnatttcacc agaccnctg atcctccttn tgcgnatnct 120  
 gctacctgct ganaggcccg ggagctcttn tggagactat gccctatcct acgtcatcac 180  
 ctgcagctgg ttccaggctc caaggatgaa ttggcgggaa tggactttcc cccctttttt 240  
 cccccctctt ttctaaagcg tgtctgccat taaaaatttg aaccttgagc aaaaaaaaaa 300

<210> 447  
 <211> 152  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(152)  
 <223> n = A,T,C or G

<400> 447  
 ctgggtgatgt ccctccctgg gacacatcca gaggggtgtg caggagtcca aagaaccang 60  
 gactcaggac ctgcgggcag ctgacctctg ctgctgtcac tgcacagaaa tttttaaatg 120  
 acttttatta aatccttaca aaacagaaaa aa 152

<210> 448  
 <211> 247  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(247)  
 <223> n = A,T,C or G

<400> 448  
 acgactgggc ttccagtgtgt ccgtggggga gtcagggtca ggcggaccgg aggtctacca 60  
 tgacacacgt gtttccgncg ggcacgcata cacncacgtc cctgaccatc ctgttgccga 120  
 gttggtgccc ccggnccctc agtgaccccc cccacacttn gttnngagcag nggcccctgcc 180  
 tcanaatggg cagacctttt aggaaactng gatcanacgn gactcggctg gcacccccact 240  
 ggtgccc 247

<210> 449  
 <211> 228  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(228)  
 <223> n = A,T,C or G

<400> 449  
 tgaagagcag ttttgtccaa aaagaacatc atctccagcg gagaaagggc agctctgagc 60  
 ctcgaggaga gactncattg tnancctctca gactacatac cttggncctna caatgaaaga 120  
 atccaatatt gganganca ngaaaggaac tcagngcncc tngcnccagg tcaangngtg 180  
 gacctcatag ccttttttgt cagngtgtnc ctagggaac ataataac 228

<210> 450  
 <211> 136  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(136)

<223> n = A,T,C or G

<400> 450

agtctacata	ccaagctcca	gnncagccaa	ggctacncag	anaaatcctg	tcttggaata	60
caaccggnncn	nacaancctc	caaactgagn	aatctgtatt	tagaacgatt	gctcatnttt	120
atgacaaata	aagtag					136

<210> 451

<211> 485

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(485)

<223> n = A,T,C or G

<400> 451

aactccctgt	ggttggaatg	gcttctctct	ttcattcaga	gggcttctct	ggatcaagcc	60
aggcgaanaa	gctgagactc	caggcataca	actggttatc	cagggagctg	gaccttcaact	120
ccgacttcca	gctctccacg	cgctgctcac	cgctccctgtc	ccagacagga	aacagtaact	180
gatgctggaa	cacaggctcg	tgggacccgc	ccactaagga	tctctcagcc	accggcagcc	240
acagccacgg	aggagctctt	tgtggtcttg	gcttttcaat	caaggtttgt	ggccaaggct	300
agagaggcag	ctctcacctt	caatgaaagc	atctgggtct	cagtcaagat	tgatctgcac	360
tcggatggat	tccctgtctg	ccagacaacc	ttggaatcca	ttagggccgg	gataagagcac	420
gatggaagg	gaaggcgcta	aggcacgcaa	catgtcacgt	gacaccagca	gtttccgttc	480
cctct						485

<210> 452

<211> 558

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(558)

<223> n = A,T,C or G

<400> 452

ctgagagtac	cagtgatggg	gactccagcc	tctgtcgtga	gcgagccacc	cctgtggcag	60
gtttcaacac	ctcagacccg	gggccgcaag	caggcctctg	ccaacatctt	ccaggatgct	120
gagctgggtc	agatccaggg	cctgttccag	cgcagtggg	accagctggc	tgaagagcgg	180
gcccagatca	tctggggagt	tgcaggggat	caccgtgtag	ctgagggcgt	gaggaggctg	240
cgcaggaaaa	ggccgcccac	acagaaccac	tgcagccggc	ttagagtggc	ggagcctggt	300
tctacagcgt	ctgaccccca	ggccagcacc	actgacacgg	cctccagcga	gcagtctggg	360
aactcccggg	gaacaagtgc	tagagcccc	cggaaactgga	ataagccagg	ccccacaggt	420
tacctccacc	agatcagaca	ctgactgggt	aaggggtggg	gaggtcctcc	ccaaacactt	480
gcagggactt	tggccaaaang	gcttatggag	ttgtaaaaaag	gacatntgag	cangcccttt	540
gtaggtgaaa	aaaaaaag					558

<210> 453

<211> 221

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(221)

<223> n = A,T,C or G

<400> 453

attgtgctca	gcacagaggt	gnttcgtgac	cnngactgta	cttctnaatg	cntgcatgga	60
tgccagacac	cncgancngn	aagcgtncnt	nagngctnca	gagcttatgn	agtgntaaan	120

gattctcaag	tggncatctg	acccaccatg	atacagntct	gactgttgct	accaccnta	180
ggaagaaaac	gctgagtcac	cngaaaccaa	agaaaaacaa	a		221

<210> 454  
 <211> 181  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(181)  
 <223> n = A,T,C or G

<400> 454						
gctgggaatt	aaccttngna	cctgatggaa	naagcggcga	gncaaccaca	acccatcgct	60
caagcccat	tgctgggcct	ggtgacaacg	catgtcagtc	ctgcctcagc	cccctgaatg	120
catgtttaca	gatgtgcacc	agagcacctg	actcaagttt	taaacgatca	ttttgagcac	180
t						181

<210> 455  
 <211> 457  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(457)  
 <223> n = A,T,C or G

<400> 455						
aacctcagaa	aaaagtcttc	aaggctcgga	aaacaatgag	agcngagcga	tcgccagcag	60
ctcgatgctg	tgcncagagt	caagggggag	ctgctgagag	ccgacgggaa	gctgctgaac	120
gggagccatg	agaatggaga	cttggatccc	acttnaccct	tggaaaacac	agattgtntt	180
caagatcgag	aagaagtgaa	tggtattgat	gggattttgn	tttcagtcag	aagaaagnnc	240
aaccgggaat	gggaaaagan	gaccccttg	tattgcccaa	tggtttgcct	gtnataaaac	300
aaaaccnnga	agattttgaa	atagtngaag	gctttttgtc	ccccccant	ttttctatan	360
ttnnatnncc	ntaacanaac	nggggggggg	nggggggggg	ttcnggggcc	ttntnaanng	420
gttngntgnt	ccccctttt	tttgtctagt	gggggggc			457

<210> 456  
 <211> 237  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(237)  
 <223> n = A,T,C or G

<400> 456						
gctggcacgg	agcatnctat	ggcatcgatga	gcctgcagct	gatctccggg	gtgngtgctg	60
agggnaacct	cacatacngc	tgttccaccc	agagtgcana	ncnctcactc	tangactcag	120
gctagaactg	gactgcacag	angaccctcc	cncnangata	aatganactt	anancctn	180
tttaccantt	gcggatctat	aaaatngnac	ntaactatac	taccaataaa	caaataa	237

<210> 457  
 <211> 348  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(348)

<223> n = A,T,C or G

<400> 457

tatggcatcc	aaactgngct	nntacaagtg	ccctgtctgc	ttncagnact	nncacngaaa	60
tgtcaaagtc	caccntgggt	aaacatttct	tgtantccct	agtccgctna	aacaacagta	120
aaacggttgg	nccntganca	nntgctaaat	aaagaaatat	ntgctgtgnc	nagccttaaa	180
tttgctatat	cctgtntcaa	tctactgcta	acatagcgtc	ntagagaatn	gnagctaact	240
ttcaaataatg	nntctaaaat	gaccagaatc	agccttccaa	atgaagaant	agcaacgnct	300
aatgctgcgn	tgattatctg	ggacagngca	tgacataagt	agggcata		348

<210> 458

<211> 101

<212> DNA

<213> Mus musculus

<400> 458

acgtcccact	gagtcttgcc	cacctctccc	ctgaaacttc	cgcgcttaat	aaaaagtaat	60
gcgtcttggg	aacacccaag	gttggtcatg	tggcagcata	a		101

<210> 459

<211> 246

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(246)

<223> n = A,T,C or G

<400> 459

gctgtgaaca	gcttaccctt	gatcgatgat	ccgcagaaac	nncaagagag	accttgtctc	60
agtgacgtgg	aagangaatc	agtgccccnn	aagtngnatc	ctgaccttct	tttgccatag	120
catgtgtgag	cctgnactca	ccccttccct	taataataat	aaaacaacaa	ctttgtgant	180
tgngacnnat	nnanncatag	catgngtgag	cctgtactca	ccccttccct	taataataat	240
aaaaca						246

<210> 460

<211> 294

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(294)

<223> n = A,T,C or G

<400> 460

gccacactgc	atccgcttcg	gctttttaa	gaaatcacct	gcaactcccg	ccgncggcac	60
cgaagngcag	aagatgcca	ggtttccgga	gcaacagctc	agngtcact	atctccgccc	120
cgcggcgcct	ttcccgccaa	aggccgttac	caccgcggag	catggtggga	cacagcttgc	180
aagataggtt	tcacccaatc	tttttanagc	gccnagctgc	tttcanagag	ggtctacccc	240
cgaggtggcc	gacgattctg	gactcagtg	ggattaataa	taaccgcttt	aacc	294

<210> 461

<211> 106

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(106)

<223> n = A,T,C or G

<400> 461  
 gaaaagcgca gggcccatcg accactgaag acaacgggag ggagctggaa gacggngatg 60  
 gnetgganat cantgctgca ctcttcctgn gagacgattg aagcct 106

<210> 462  
 <211> 347  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(347)  
 <223> n = A,T,C or G

<400> 462  
 gagcctttga agaccagata nctaataaac tctagatnca tccatgggtg cntcngntnc 60  
 cttcntannn atggttnncat attannnanc gttnggnccn tccngcctcc gagcccagga 120  
 tgcaactgga tgaaaacaaa atcccacgtg actggccctg agctcagatc atcatggcgt 180  
 ctcccagtgga gaagggatct tggacgccc aggtccttg ttttgggccc cgggcgctag 240  
 cacgggacct ggtggactcg gtggacgacg ccgagggcct ttacgtggct gttgagcggn 300  
 gcctctgtgc aacaccactc gccggnggtg acttgcgcca agtgcgt 347

<210> 463  
 <211> 472  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(472)  
 <223> n = A,T,C or G

<400> 463  
 agctttggag aagcctctga aggcccagga acccgagggt gttctgctga gagtcgacat 60  
 catggatggg gagagcagag gaggacacga aggccaaagg gagcagcagc agcaagaccc 120  
 tcagtcgaca cattgcaggc gcccttctatc cnggttttagc ctactcaga tccagtacct 180  
 tacctttgcc ttcatctctg ccttntgctg gacacccggn cacccggtc cggacaccgc 240  
 cggatacggg cagttaatat ccagttctgg tctcgagcct gggcaaatta ctggagcggt 300  
 cgttgggtgt cagggctccg ngagactggc cacgcnctaa ttgtctcacc acgccctnca 360  
 cacacggtcg cctaggatcc tctactctcc accatcggtt ctctggcata tccacatctg 420  
 tattgttgac tgaccacacc tcttaagcca tactcctcgt ggatggccac gt 472

<210> 464  
 <211> 480  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(480)  
 <223> n = A,T,C or G

<400> 464  
 agcctcaaata gcagcctgct tgnccacctc cttctccact caggncacaca gctctgcata 60  
 cctacacttc tctggntccg gntcactgaa aaaacccaan atccacatgc ccacggactc 120  
 ntccccact gactnnatcc cacttcctgt agagttccta aacaatccca anaaagcacc 180  
 tccagccaaa aanggacccc ttgatgactt gganaaagac cctccaggng ggnngnccan 240  
 aangtgganc tngcctccct gnaagagctc ttctggaaca tggcaagtcc aagccaacag 300  
 gctgggaccc canagatttc ctctgggagc tcacaatgct acatcaataa cttanattac 360  
 ttactgcaan aaaagaggat gctggttga naatttctcc ntgtccctgc angtcatttc 420  
 nccagtgcata ccgggtgaaa ctgtattctt ncctaagcnt caccctttgc cttgcttcct 480

<210> 465

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<211> 139
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(139)
<223> n = A,T,C or G

<400> 465
ctggaacaag aggggtctca nccctcctt tgtggactta gcattacagt cnctaaatgt      60
gtggacttgc aacggaaatc anattcaana atcatgttct tgttggacta ctgaaaagct      120
tgaaaagatt tcatatact                                     139

<210> 466
<211> 216
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(216)
<223> n = A,T,C or G

<400> 466
aggcctgcat gcttganccg ttgcntccgc cccgcggnag cacnatgtct gnatgccatc      60
nccccacagc tgganagggc agtgctgnag cagnncctta ttgcatgnag ccactcttan      120
aattctctca gntgaagtgg tgntttttat tatatataan gtacactggt gngnncnna      180
aacactccag aatnaggngn tcagatctca ttacag                                     216

<210> 467
<211> 277
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(277)
<223> n = A,T,C or G

<400> 467
tgtggggttg ctcactgttc ttcttgaagg aggagtgact ggccgccacc ggcacctgga      60
accagcacc caggaggtga acccgacgag acctgaggag gatcctgtgt cctgtgtcct      120
tgaggagact ctcactgggg cgagatgacc acagccacca ctttngggga cgccgtcttc      180
tngctganca tgaccagggg agaggacgcc ctgtntaana gctctggagc catcgtggct      240
gccatcgtgg tnggtngtna tcatcattgt caccttg                                     277

<210> 468
<211> 363
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(363)
<223> n = A,T,C or G

<400> 468
tgtgcatgca gagaccacag atgtcatctg cagaaacaac ggtcaccttc nttganacag      60
agnctctnat tgnccctggag ctgccaatta gncncaactg cagccagcan gccccagagc      120
ttctcctgtt tctgcctccc tagcactggg gttaaaagtg cagaccacca ctctgcacct      180
ttatttacat gggtccttgg gatcaagttt aggtccttca ggctccagag gcaggtgcat      240
taccactgtg tgtgggtggg cctgatgcag ttcttgtgac ccatccccta atgaataaag      300

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gagccaatca ctgggcaagt aggagggact tccaggntgg actgaggaag agaggaagca 360  
gga 363

<210> 469  
<211> 291  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(291)  
<223> n = A,T,C or G

<400> 469  
cggggctgtc tgttgactct gcccagaact ttttcacccc aggtatctaa atccttgcc 60  
caaaggtcac cactctctaa gngagacctt ccctcattgc ctgcctgtaa gatggaatga 120  
tcttccctgt gtcaagcttg cctcgtagcc ccttcttcat cctatttctg acttcttagc 180  
cgaggaaaaa tacttaagaa aagaattctc attttgtttt ctgctgtttc cctgtaccta 240  
gtacaatata ctacacatgg caggaatggt ttttttttaa taaaacattg a 291

<210> 470  
<211> 199  
<212> DNA  
<213> Mus musculus

<400> 470  
catacctaac ctatcgaggt tcaagtcccg gttccatagt ttgcaaggaa tgcagatttg 60  
aaccaatgac tcaacgtctc cgtgctacag attttgtagc atcaaccag caccgacttc 120  
acagagctgt acagagacta aggactgctc catattaaaa cactacatgt tcccgtgttt 180  
gttaaactat acaaaaaaa 199

<210> 471  
<211> 164  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(164)  
<223> n = A,T,C or G

<400> 471  
acatgtgaca tccccaccaa cggtctgtggg tctgagcact gaaactcaga gctntctgga 60  
ttgaacanat gtgtgttggt actgttgac gtgtggcttg tgattttttg ggggcggggg 120  
agttgttttg naaaactatc cccccccca tctctcaaaa aaaa 164

<210> 472  
<211> 290  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(290)  
<223> n = A,T,C or G

<400> 472  
tgaggaaaat tcccaggtat tcatgtaaca gggaattgag gtaactaaga atgtctggca 60  
ctgaagaaga cttatgtcac cgcatagaaag tagttgtcog tgtacgtcct gagaacacaa 120  
aagaaaaggc ggtgcagttc tgtaaaagtgg ttcattgtagt ggataaacat atactcagtt 180  
ttgatccgaa acaagaagaa atcagttttt ttcacagaaa gaaaactacn aattttgata 240  
ttactaaaag gcaaaaataaa gatctgaagt ttgtatttga aaaaaaaaaa 290

<210> 473  
 <211> 252  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(252)  
 <223> n = A,T,C or G  
  
 <400> 473  
 taaggctcaga ccctatgcat ggggcggtag tataagctgg gacggcntgc tgccaacact 60  
 aaggattgga cctngccata tacacangag tncgagntcn aggaggcagt aaganagtac 120  
 tgagccctga gatggngatg tnagagaatt gcttcctnna gcctctgagc tgttatattn 180  
 ggcnaacaa gggatnactg atgttgnnnc acaatgagct tgntgcacc naagancctg 240  
 gaaaaagaac ag 252  
  
 <210> 474  
 <211> 126  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(126)  
 <223> n = A,T,C or G  
  
 <400> 474  
 accaaagtac atattnaagc cttctccagg gaanagccca ggcacacggg ctnaanatga 60  
 ngcngncngn annccccctc agaggagaa tgtggtccag caagatcana ctttgcgctg 120  
 tctgtg 126  
  
 <210> 475  
 <211> 121  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(121)  
 <223> n = A,T,C or G  
  
 <400> 475  
 acatgtacca acaatttata tnaacaaaca aataataaca tnaatnacat aagtgactnn 60  
 caagcnanga ctacatagag ataccctagc tcaaaaaaga ccaatagaat acaatggaaa 120  
 a 121  
  
 <210> 476  
 <211> 322  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(322)  
 <223> n = A,T,C or G  
  
 <400> 476  
 ttttaccatg acacanaact ggcctggagg agctggtggc acggttgagc ctggggccct 60  
 gcccacatga tcacccctcg aggggtttgg gagacagagg tgacccgggc ttttggggct 120  
 ctggtgtgga tccgttgtga caagtatgca ggagacttgc tgcagcttcc tccagcagtc 180  
 caggagctgc ttctcagttt ggtccgagat gctgccggca aggaagacat cattgagtgg 240  
 ctcggccatt ttggcatctn tggctacttgc cccaaccag agatcctgat ctgccttgcc 300



cggcagcaga aggaaagcgc cc

322

<210> 477

<211> 413

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(413)

<223> n = A,T,C or G

<400> 477

caggggtgtgg	gtgacccatg	tctanacgcg	ggattcggng	agtactnaca	gncttnatcc	60
ttacanangt	gggcacatac	tatttcttca	ggatncatag	gaanttnccc	ngtccttatc	120
tcaanccttn	cctcaattct	tttccntaca	atacaatgat	ttcactataa	anantaataa	180
ctnaaaaagc	cgtngggngt	ncngccccng	ggagccggcc	aacctggaga	gcagaaatgg	240
cagactcaaa	tagatcccca	agatccaggc	ccaagcctcg	gggacccagg	agaagcaagt	300
cggacagtga	cacccttttt	gaaacttcac	ctagtncctg	ggctacnagg	agaaccacca	360
ggcagaccac	catcacggct	gantncacga	agggcnccac	taatcggaag	ccc	413

<210> 478

<211> 462

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(462)

<223> n = A,T,C or G

<400> 478

gctccactgt	tggtgtgctg	ggctctccag	aaaccaattg	cctgatccga	ttcattgccc	60
agcagcgaaa	cctaaagaag	gctgtgctct	ctccgttggc	acgagagccc	cacttcgagg	120
gtagcccaag	actgtatcga	aatgccagtg	ttttaagaga	gcagaatgtc	tgcttttcgg	180
tcagcttttc	actccataca	ggaaactaag	atggccagca	gtccctcagc	agcagaggca	240
gacggagagt	ctaggatatc	agatttgacc	agaaaagaag	atcttcttga	atatcagcag	300
tctgggttcc	ctgtaaactc	ctcttcaaag	cggaggagaa	tatcctccca	ggacagccct	360
gacaattatc	tnagtggcnc	caaagccctt	gctgacgaag	cgtgtgctgg	gggtgcctnc	420
acagatcttg	ctgagaagtc	acctgacatc	ggttccgccc	ag		462

<210> 479

<211> 112

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(112)

<223> n = A,T,C or G

<400> 479

ctctgacctg	ctggcatgcg	tggncttcgt	ggccaacacc	ttactctcag	ggcatgtcac	60
tctgtgcctt	aactcccgtg	cagtggtttg	cccagagagg	ttccgccttc	at	112

<210> 480

<211> 129

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(129)

<223> n = A,T,C or G

<400> 480

agccggtttg	gactgactgg	ctgcctncct	cctcctgccc	ctcctcccgc	ttctgcttca	60
gatttantta	ttatatgtan	gtacnctgnn	ncagtctgga	ggacnacta	nacgagggca	120
ccacgatct						129

<210> 481

<211> 162

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(162)

<223> n = A,T,C or G

<400> 481

ggaccctctc	catggcaacg	ggnanctcac	tgagangnga	gtgtancnca	acagcangnt	60
gcnnatatgn	agncatagct	gatgctccca	ttatattata	tagtgaccga	gaaggcgtgg	120
aattattacc	catacacnat	nacagaatac	actgggtgct	ta		162

<210> 482

<211> 339

<212> DNA

<213> Mus musculus

<400> 482

cttactgtcc	ctctgatgcg	gcctaggatg	acctgggagt	gggcttctgc	cctggctggt	60
ggagaattat	cttgactaag	tgcagggcag	cccggaatgg	agctgaccag	cacagcagaa	120
gccaggaagc	gacttccccct	ccttgcccgc	attcttcgct	tcctttcgct	ggaacccttcg	180
caccaggcct	ggccagagat	ctccgtggaa	aacctctggt	acccaggccc	agagacagtg	240
aacaactgct	tagatctctg	cattctttcac	ttcccaccat	gagctgtacc	cctgcagtgt	300
gagccagaat	aaaccttttt	ttcccttcaa	aaaaaaaa			339

<210> 483

<211> 107

<212> DNA

<213> Mus musculus

<400> 483

caggatgctc	tggtctcatc	cttagcccag	ctttgaacac	actgcttgga	caggcttctc	60
ctgcctaaga	tttgacaact	gttcagttgc	tgtgattaaa	aaaaaaa		107

<210> 484

<211> 107

<212> DNA

<213> Mus musculus

<400> 484

caggatgctc	tggtctcatc	cttagcccag	ctttgaacac	actgcttgga	caggcttctc	60
ctgcctaaga	tttgacaact	gttcagttgc	tgtgattaaa	aaaaaaa		107

<210> 485

<211> 107

<212> DNA

<213> Mus musculus

<400> 485

caggatgctc	tggtctcatc	cttagcccag	ctttgaacac	actgcttgga	caggcttctc	60
ctgcctaaga	tttgacaact	gttcagttgc	tgtgattaaa	aaaaaaa		107

<210> 486

<211> 235  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(235)  
 <223> n = A,T,C or G

<400> 486  
 atcacccctca actatcaggn tcgggggtgct aggtttcctg ancactgnag atnangctgn 60  
 caaggggcaac tatgggctcc ttgatcaaat ccaggccctt cgctgggtga gtgagaatat 120  
 tgctttcttt ggaggagatc cccgtagaat tactgtcttt ggctctggca tcggtgcac 180  
 ctgtgtcagt ctctttacac tgtctcatca ttctgagggg actcatggag cctgg 235

<210> 487  
 <211> 101  
 <212> DNA  
 <213> Mus musculus

<400> 487  
 ccacccaact tggaaatatg agtcgtctac agcctctgct ctagtggcat aaatgctgtt 60  
 gtgtgcacaa gcaataaaat cacctttgag taaaaaaaaa a 101

<210> 488  
 <211> 145  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(145)  
 <223> n = A,T,C or G

<400> 488  
 cccgtcacac accccgattt cgaaccaagc actgaagtga gaaacatttg tttttaaaca 60  
 acntgtctta atagtcttac atttaaaaaa taagacgatg cttcctatta aacttgctat 120  
 tataatatag ataattaaaa aaaaa 145

<210> 489  
 <211> 175  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(175)  
 <223> n = A,T,C or G

<400> 489  
 ggttatctcc ctttccacat ggggagcagg tcagacttga gacttcatct ctttggtttt 60  
 gcacgatata ccngtgatga acctcaacat aaaatactgg gtttggttaa tccccaggac 120  
 acanananaa gagggggggg gtttacnttn agggaatccc cgggggggcc atctg 175

<210> 490  
 <211> 401  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(401)  
 <223> n = A,T,C or G

<400> 490  
gagccctgaa gttgggattg ggncctgcang tcaatcagac gctgcggn tn ntnattgata 60  
tccaagnaag cagagaatgt gaggnccctcg ntagctccat gagtgaaant cttccaggac 120  
tctgtataaa gcgtagtac ttctanaaga aaagactggc cacaagcctc tacaccatcc 180  
cagccagcat ctgcaccaag tgactctggt ctctaatatg ctactttaac attcacagtg 240  
ctggccattt aatacacaaac atgtgtatct tcngaacaaa aanactatac accgtgncca 300  
gccagcntct gcaccaagtg actctggtct ctaatatgct actttaacat tcacagtgtc 360  
ggccatttaa tacacaacat gtgtatcttc aaaaaaaaaa a 401

<210> 491  
<211> 120  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(120)  
<223> n = A,T,C or G

<400> 491  
ggagagctac cctctnanng gccgganccc tactcaganc gttangacta tcctnanang 60  
tgcgatctca cctgattaat gagcccnaca ccttttgtcc ancgcaatga ggatgcttca 120

<210> 492  
<211> 194  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(194)  
<223> n = A,T,C or G

<400> 492  
gaaataacac tcaggagcga ccagggactg agcgagtgga gttgaccgga gcaagangag 60  
gncctaaaaa ttcaatnncc ancaaccaca tgaaggctca caancatctg tacagntaca 120  
agtgtactca catncataaa ataatgaata aataaatatt tagaatgata tcgngaaata 180  
aaggtcattt aatt 194

<210> 493  
<211> 118  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(118)  
<223> n = A,T,C or G

<400> 493  
catcggtgac ctgccaaagga gtgaccataa aggaannacg aacttgnent gtttgggcat 60  
taaagaaaac gtggttttaa naatganact nttacctggc ctcttccaaa acgacata 118

<210> 494  
<211> 255  
<212> DNA  
<213> Mus musculus

<220>  
<221> misc\_feature  
<222> (1)...(255)  
<223> n = A,T,C or G

Variable	Mean	SD	Min	Max
Age	38.5	12.5	18	65
Gender	Male	Female		
Marital status	Married	Single		
Education	High school	College		
Occupation	Manager	Worker		
Income	Low	High		
Health status	Good	Poor		
Smoking status	Smoker	Non-smoker		
Alcohol consumption	Regular	Occasional		
Exercise frequency	Regular	Occasional		
Stress level	Low	High		
Sleep quality	Good	Poor		
Dietary habits	Healthy	Unhealthy		
Family size	Small	Large		
Work-life balance	Good	Poor		
Life satisfaction	High	Low		
Overall well-being	Good	Poor		

Variable	Mean	SD	Min	Max
Age	38.5	12.5	18	65
Gender	0.5	0.5	0	1
Marital status	0.7	0.5	0	1
Education	12.5	2.5	9	16
Income	1500	500	500	3000
Health status	0.8	0.4	0	1
Exercise frequency	0.3	0.5	0	1
Stress level	0.6	0.5	0	1
Sleep quality	0.7	0.4	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.6	0.5	0	1
Depression score	10.5	5.5	0	30
Anxiety score	12.5	6.5	0	35
Quality of life score	75.5	15.5	30	100

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Variable	Mean	SD	Min	Max
Age	38.5	12.5	18	65
Gender	0.5	0.5	0	1
Marital status	0.7	0.5	0	1
Education	12.5	2.5	9	16
Income	1500	500	500	3000
Health status	0.8	0.4	0	1
Exercise frequency	0.3	0.5	0	1
Stress level	0.6	0.5	0	1
Sleep quality	0.7	0.4	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.6	0.5	0	1
Depression score	0.4	0.5	0	1
Anxiety score	0.3	0.5	0	1
Quality of life	0.7	0.4	0	1
Healthcare utilization	0.2	0.4	0	1
Health insurance	0.9	0.3	0	1
Chronic disease	0.1	0.3	0	1
Family size	2.5	1.5	1	5
Religious belief	0.5	0.5	0	1
Community involvement	0.3	0.5	0	1
Environmental awareness	0.4	0.5	0	1
Political participation	0.2	0.4	0	1
Cultural engagement	0.3	0.5	0	1
Volunteer work	0.1	0.3	0	1
Charitable donations	0.2	0.4	0	1
Prosocial behavior	0.4	0.5	0	1
Altruism	0.3	0.5	0	1
Empathy	0.5	0.5	0	1
Compassion	0.4	0.5	0	1
Generosity	0.3	0.5	0	1
Kindness	0.4	0.5	0	1
Helpfulness	0.3	0.5	0	1
Cooperativeness	0.4	0.5	0	1
Trustworthiness	0.3	0.5	0	1
Integrity	0.4	0.5	0	1
Honesty	0.3	0.5	0	1
Reliability	0.4	0.5	0	1
Accountability	0.3	0.5	0	1
Responsibility	0.4	0.5	0	1
Respectfulness	0.3	0.5	0	1
Politeness	0.4	0.5	0	1
Courtesy	0.3	0.5	0	1
Modesty	0.4	0.5	0	1
Humility	0.3	0.5	0	1
Gratitude	0.4	0.5	0	1
Optimism	0.3	0.5	0	1
Positivity	0.4	0.5	0	1
Enthusiasm	0.3	0.5	0	1
Passion	0.4	0.5	0	1
Energy	0.3	0.5	0	1
Vitality	0.4	0.5	0	1
Resilience	0.3	0.5	0	1
Perseverance	0.4	0.5	0	1
Determination	0.3	0.5	0	1
Commitment	0.4	0.5	0	1
Dedication	0.3	0.5	0	1
Devotion	0.4	0.5	0	1
Loyalty	0.3	0.5	0	1
Faithfulness	0.4	0.5	0	1
Trust	0.3	0.5	0	1
Confidence	0.4	0.5	0	1
Self-esteem	0.3	0.5	0	1
Self-worth	0.4	0.5	0	1
Self-respect	0.3	0.5	0	1
Self-love	0.4	0.5	0	1
Self-compassion	0.3	0.5	0	1
Self-kindness	0.4	0.5	0	1
Self-forgiveness	0.3	0.5	0	1
Self-acceptance	0.4	0.5	0	1
Self-awareness	0.3	0.5	0	1
Self-reflection	0.4	0.5	0	1
Self-examination	0.3	0.5	0	1
Self-improvement	0.4	0.5	0	1
Self-actualization	0.3	0.5	0	1
Self-fulfillment	0.4	0.5	0	1
Self-realization	0.3	0.5	0	1
Self-transcendence	0.4	0.5	0	1
Self-enlightenment	0.3	0.5	0	1
Self-illumination	0.4	0.5	0	1
Self-awakening	0.3	0.5	0	1
Self-awakening	0.4	0.5	0	1
Self-awakening	0.3	0.5	0	1
Self-awakening	0.4	0.5	0	1
Self-awakening	0.3	0.5	0	1
Self-awakening	0.4			

Variable	Mean	SD	Min	Max
Age	38.5	12.5	18	65
Gender	0.5	0.5	0	1
Marital status	0.7	0.5	0	1
Education	12.5	2.5	9	16
Income	1500	500	500	3000
Health status	0.8	0.4	0	1
Exercise frequency	0.3	0.5	0	1
Stress level	0.6	0.5	0	1
Sleep quality	0.7	0.4	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.6	0.5	0	1
Depression score	0.4	0.5	0	1
Anxiety score	0.3	0.5	0	1
Quality of life	0.7	0.4	0	1
Healthcare utilization	0.2	0.4	0	1
Health insurance	0.9	0.3	0	1
Chronic disease	0.1	0.3	0	1
Family size	2.5	1.5	1	5
Religious belief	0.5	0.5	0	1
Community involvement	0.3	0.5	0	1
Environmental awareness	0.4	0.5	0	1
Political participation	0.2	0.4	0	1
Cultural engagement	0.3	0.5	0	1
Volunteer work	0.1	0.3	0	1
Charitable donations	0.2	0.4	0	1
Prosocial behavior	0.4	0.5	0	1
Altruism	0.3	0.5	0	1
Empathy	0.5	0.5	0	1
Compassion	0.4	0.5	0	1
Generosity	0.3	0.5	0	1
Kindness	0.4	0.5	0	1
Helpfulness	0.3	0.5	0	1
Cooperativeness	0.4	0.5	0	1
Trustworthiness	0.3	0.5	0	1
Integrity	0.4	0.5	0	1
Honesty	0.3	0.5	0	1
Reliability	0.4	0.5	0	1
Accountability	0.3	0.5	0	1
Responsibility	0.4	0.5	0	1
Respectfulness	0.3	0.5	0	1
Politeness	0.4	0.5	0	1
Courtesy	0.3	0.5	0	1
Modesty	0.4	0.5	0	1
Humility	0.3	0.5	0	1
Gratitude	0.4	0.5	0	1
Optimism	0.3	0.5	0	1
Positivity	0.4	0.5	0	1
Enthusiasm	0.3	0.5	0	1
Passion	0.4	0.5	0	1
Energy	0.3	0.5	0	1
Vitality	0.4	0.5	0	1
Resilience	0.3	0.5	0	1
Perseverance	0.4	0.5	0	1
Determination	0.3	0.5	0	1
Commitment	0.4	0.5	0	1
Dedication	0.3	0.5	0	1
Devotion	0.4	0.5	0	1
Loyalty	0.3	0.5	0	1
Faithfulness	0.4	0.5	0	1
Trust	0.3	0.5	0	1
Confidence	0.4	0.5	0	1
Self-esteem	0.3	0.5	0	1
Self-worth	0.4	0.5	0	1
Self-respect	0.3	0.5	0	1
Self-love	0.4	0.5	0	1
Self-compassion	0.3	0.5	0	1
Self-kindness	0.4	0.5	0	1
Self-forgiveness	0.3	0.5	0	1
Self-acceptance	0.4	0.5	0	1
Self-awareness	0.3	0.5	0	1
Self-reflection	0.4	0.5	0	1
Self-examination	0.3	0.5	0	1
Self-improvement	0.4	0.5	0	1
Self-actualization	0.3	0.5	0	1
Self-fulfillment	0.4	0.5	0	1
Self-realization	0.3	0.5	0	1
Self-transcendence	0.4	0.5	0	1
Self-enlightenment	0.3	0.5	0	1
Self-illumination	0.4	0.5	0	1
Self-awakening	0.3	0.5	0	1
Self-awakening	0.4	0.5	0	1
Self-awakening	0.3	0.5	0	1
Self-awakening	0.4	0.5	0	1
Self-awakening	0.3	0.5	0	1
Self-awakening	0.4			

[illegible]

Variable	Mean	SD	Min	Max
Age	38.5	12.5	18	65
Gender	0.5	0.5	0	1
Marital status	0.7	0.5	0	1
Education	12.5	2.5	9	16
Income	1500	500	500	3000
Health status	0.8	0.4	0	1
Exercise frequency	0.3	0.5	0	1
Stress level	0.6	0.5	0	1
Sleep quality	0.7	0.4	0	1
Work satisfaction	0.5	0.5	0	1
Life satisfaction	0.6	0.5	0	1
Depression score	0.4	0.5	0	1
Anxiety score	0.3	0.5	0	1
Quality of life	0.7	0.4	0	1
Healthcare utilization	0.2	0.4	0	1
Health insurance	0.9	0.3	0	1
Chronic disease	0.1	0.3	0	1
Family size	2.5	1.5	1	5
Religion	0.5	0.5	0	1
Political affiliation	0.5	0.5	0	1
Travel frequency	0.2	0.4	0	1
Volunteering	0.1	0.3	0	1
Substance use	0.05	0.2	0	1
Crime involvement	0.02	0.1	0	1
Legal issues	0.01	0.05	0	1
Financial stability	0.6	0.5	0	1
Home ownership	0.7	0.4	0	1
Vehicle ownership	0.8	0.4	0	1
Internet usage	0.9	0.3	0	1
Smartphone usage	0.95	0.2	0	1
Social media usage	0.8	0.4	0	1
Online shopping	0.7	0.5	0	1
Online banking	0.6	0.5	0	1
Online healthcare	0.5	0.5	0	1
Online education	0.4	0.5	0	1
Online entertainment	0.3	0.5	0	1
Online news	0.2	0.4	0	1
Online social networking	0.1	0.3	0	1
Online dating	0.05	0.2	0	1
Online shopping cart	0.02	0.1	0	1
Online banking app	0.01	0.05	0	1
Online healthcare app	0.01	0.05	0	1
Online education app	0.01	0.05	0	1
Online entertainment app	0.01	0.05	0	1
Online news app	0.01	0.05	0	1
Online social networking app	0.01	0.05	0	1
Online dating app	0.01	0.05	0	1
Online shopping cart app	0.01	0.05	0	1
Online banking app	0.01	0.05	0	1
Online healthcare app	0.01	0.05	0	1
Online education app	0.01	0.05	0	1
Online entertainment app	0.01	0.05	0	1
Online news app	0.01	0.05	0	1
Online social networking app	0.01	0.05	0	1
Online dating app	0.01	0.05	0	1
Online shopping cart app	0.01	0.05	0	1
Online banking app	0.01	0.05	0	1
Online healthcare app	0.01	0.05	0	1
Online education app	0.01	0.05	0	1
Online entertainment app	0.01	0.05	0	1
Online news app	0.01	0.05	0	1
Online social networking app	0.01	0.05	0	1
Online dating app	0.01	0.05	0	1
Online shopping cart app	0.01	0.05	0	1
Online banking app	0.01	0.05	0	1
Online healthcare app	0.01	0.05	0	1
Online education app	0.01	0.05	0	1
Online entertainment app	0.01	0.05	0	1
Online news app	0.01	0.05	0	1
Online social networking app	0.01	0.05	0	1
Online dating app	0.01	0.05	0	1
Online shopping cart app	0.01	0.05	0	1
Online banking app	0.01	0.05	0	1
Online healthcare app	0.01	0.05	0	1
Online education app	0.01	0.05	0	1
Online entertainment app	0.01	0.05	0	1
Online news app	0.01	0.05	0	1
Online social networking app	0.01	0.05	0	1
Online dating app	0.01	0.05	0	1
Online shopping cart app	0.01	0.05	0	1
Online banking app	0.01	0.05	0	1
Online healthcare app	0.01	0.05	0	1
Online education app	0.01			

<220>  
 <221> misc\_feature  
 <222> (1)...(205)  
 <223> n = A,T,C or G

<400> 498  
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 ncacccggtc ctgtccctcc cngcactagc cctgctcgcn ganctgngag gaagaanagg 120  
 acagggtgt accgaccgga aaaggggggac ctggaagagc cgcccgcccc taaaaatctn 180  
 ctaagaagaa aagcaggggg gagac 205

<210> 499  
 <211> 379  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(379)  
 <223> n = A,T,C or G

<400> 499  
 ccctcctgga gacagatgga agctccttgg gtcgacagat tacagcttct ggaacccccct 60  
 actcccttca actccgagat ggacacccac tgtccaggga gaggatgcct ggaaataaca 120  
 gctgggatct acagtggcca aagagttgtc tccgtcttgc tacatcgaca aactggngct 180  
 cctgagttag gattgngccc tgggatggng gattcagttc nttcatttat agttggaaga 240  
 agantnaaga ggatgtagng tgtccntntt tntattccat gcncagtgcn aagagngact 300  
 gnaccctcca aanggangtn ccgtgatggn ncttcnaatg cntgcccgca ngccgatgat 360  
 caaccctgca ctccaaaag 379

<210> 500  
 <211> 113  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(113)  
 <223> n = A,T,C or G

<400> 500  
 atctcacgta ccagatgcta acanaggang ggncctgangc agcctggctg ccacaggctg 60  
 canaaaggct cccgatggnc atnagaccat atngaccgac ccagaggcca ccg 113

<210> 501  
 <211> 147  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(147)  
 <223> n = A,T,C or G

<400> 501  
 catccaacgt gtgatnagcc catntctgtc canctggggg aggcactttg tgctgnncac 60  
 canntcaacc tgcttaangn tgatgacatc actgaaactn tagngnatgg gccngcctct 120  
 gtaaaatcga tcgagagggc aaaccac 147

<210> 502  
 <211> 169  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(169)  
 <223> n = A,T,C or G

<400> 502  
 aataattgtc tccccgcctg gccaatcagc cctcttttcg gcaataactnc angctacctc 60  
 agagcatcga actccaagca cttnacanta ctgggtttgng gantcncana acnaccctaaa 120  
 gancagcccc natnantncc tttgnctgan ggggggatccc gcatacatc 169

<210> 503  
 <211> 213  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(213)  
 <223> n = A,T,C or G

<400> 503  
 cttttttaaac agactganca ccgngtgctt ctgcgtcaag atgatctgat gtctgaagtg 60  
 gactctcact aaccatgatg gcgacacaga cgctaagtat agacagctat caagatggac 120  
 agcaaagcat ctgagttcag ttcccagaat ccctggcagc ttacaactgc ccgtaactcc 180  
 agctcatata tatgtaaatc aaaataaaat aaa 213

<210> 504  
 <211> 176  
 <212> DNA  
 <213> Mus musculus

<400> 504  
 ccctgacgat ttacaggaga tacaggaact tattaatgta atgagacaaa ctgggtttcat 60  
 tttcctacaa aggaagaaaag gattgtagct aactgtgat cttaagtagg aaatgtcctt 120  
 gtgccagagg ttcaaaggaa gcaccagcca tcgtttaatg agctccgctc gagcca 176

<210> 505  
 <211> 103  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(103)  
 <223> n = A,T,C or G

<400> 505  
 aagcttcacg ggtaatgacc caccttggag aatgggaaaag ctttatnaag ngggtagang 60  
 agaattttcc tgacactaaa gaataccttg atgacattaa aaa 103

<210> 506  
 <211> 380  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(380)  
 <223> n = A,T,C or G

<400> 506  
 tcctcatgcg ggtgaagtat cttttctttt cctggctggg ggtttttgtc ggaagctgga 60  
 tcatntatgt gcagtattca acctatacag agctatgcag agggaaggac tgtaagaaaa 120

tcatatgtga	caaataacaag	accggagtta	ttgaccggac	ctgcatgcaa	cagcctctgt	180
gtcacagaaa	cactgtactt	tggaaaatgt	ctgtccaaca	ngcccagcaa	ccagangtgt	240
ttagnagttn	ttgatnntct	accannngat	gctnanngtn	nnntgggnaca	agctnttcat	300
nttgncntnn	tanntgnnnt	ggatncnnta	nctgnagtat	cagctatatg	atanaccgac	360
caggggaact	actgctctta					380

<210> 507  
 <211> 186  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(186)  
 <223> n = A,T,C or G

<400> 507						
aatttgagca	ctctgtggct	ggctgactta	taaattgacc	tgatangtag	gtccttggac	60
tgngatgaaa	gaggcgccact	gagacactaa	nnctnnatgg	ncttgggctc	cccgtccggg	120
cggnnttttc	tcngnagcag	tagtgaanat	tggggtgctt	ttacaaagct	ctatagccac	180
catctg						186

<210> 508  
 <211> 438  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(438)  
 <223> n = A,T,C or G

<400> 508						
gactgagatt	tgcactgggt	agagtctact	gtctgggtctc	cttggttttct	ctagtccaga	60
ggatggggca	cccacacgga	gatacaagac	catttgaaag	atgcctgatt	gaaagattgg	120
attgagctgc	cgattcctgt	gagctgtact	gctgatgtcc	tgacaatgca	gattggattt	180
gtcccaaaga	actatatttcta	aacagggttct	tctttgccct	attaatcttt	ccttcccact	240
acctctgggtg	tggnggggcta	gaaggggacat	taaaacattt	aagaacaaca	accctcgaac	300
tgtgaggctg	tcagcttcag	acaagagaga	ctatttactt	aaatggccaa	tttttgttta	360
aaatggccac	tcaaattaaa	aggaaaagtg	aggatctgga	gagaggctca	ncanttaana	420
acactgactg	atcttcca					438

<210> 509  
 <211> 239  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(239)  
 <223> n = A,T,C or G

<400> 509						
gactgagggg	cccctctgct	cactgaganc	ctggactttg	aagagncaag	nncnacttng	60
ttgccaggct	cctctaactg	cccnaaggat	gaccttatcc	atctggccag	tncttcaatg	120
ancacttnca	ccnaatanat	ggaattcnca	nccaacagat	ntttcccca	tgatccctca	180
cctggcggat	tgtctcatat	agnaagacat	cgtcaattca	cctcactgga	gacacagtc	239

<210> 510  
 <211> 170  
 <212> DNA  
 <213> Mus musculus



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<220>
<221> misc_feature
<222> (1)...(170)
<223> n = A,T,C or G

<400> 510
ctcaggcctg ctgtcaaaac acaccaatgt ctttgtcagc attcaggagg cagaggcagg      60
cagatcagct gtgagtttgt ggncagcctg gtatctacct caagttccag gtcattcaaa    120
gctacataat gagaccctga tcaaacgaaa tgaaaggaaa caaaaaacaa                170

<210> 511
<211> 305
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(305)
<223> n = A,T,C or G

<400> 511
atccccatct tgaatcagag cagctgttga ccaaccacag agcctctgga agtcaggcct      60
atcagcattc ctgcatggaa gantgaggaa ggctcctncc agaagctgta tcaccagtga    120
atgatgactg ggaanaaanat tggttgganc aaaaggttgc ntttgatccn ccaaggccct    180
taaaattcca caaaaagggtg gaatttnntt ttgcttaaaa aaaanggggn gggaaatttt    240
ttnaaaaaag ggtttcccc cccntgggga aaggttcccg gaaaaaaaaac cccttttttc    300
cccgg                                             305

<210> 512
<211> 297
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(297)
<223> n = A,T,C or G

<400> 512
tggcacagcc tgatanaccg nnaganttca nactgttgn atgacaatat cacacancaa      60
agtggatgatn ggctcagccc tcagagacct ggcancatnn aacactattn gtggtnngaa    120
ncccacacnc tcccaacacn catttttgtt cacagaacca gacgtntgac tctnacctt     180
gggctngetg gaccgccttt agaanaagtgg tagcctagtg tgnggtccgg atcagaccca    240
tgctgatttn tgcgctttng gatgnctgtc cattttacct gacatttaaa aggcaca       297

<210> 513
<211> 414
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(414)
<223> n = A,T,C or G

<400> 513
gcaggcatat tgtgtaacag tntgtanaact gaaaggcctg ggggctatgg agagagacnc      60
cggaaggctcn gccagctcc ggtcagcaga cangtctttg tgcgtncccc ttggaagaga    120
nggaggagcg aattgacaca ggatctcatg tgcaacantc tancttcaaa cttgctatgt    180
ancccaagat ggcgacctcc tgatactcct tccagttccc aaatgtnggg gtttcacgca    240
agcaccgtgc aggcacagac atcatacatc tgctacccag gagactgacc tcanaacagg    300
acggagacaa aaggttctcc aaggaaagtt ccagcagagg gaggaggcca catcatctca    360
gaatcatcct aggagaacan caacgcattn catgtcctgc ttcagaatgc taac          414

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<210> 514  
 <211> 172  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(172)  
 <223> n = A,T,C or G

<400> 514  
 ttttattccc ccatgctggg catggaggaa aggccttgct atgccacang gnggngngga 60  
 gncgncctca cattgggcat tntaagatgg nactgacngc tgggttctaa ggggtaaaca 120  
 tagtctgcnc acatgcaggg gcagggtntcc caccatgtgt tctgcctttc cc 172

<210> 515  
 <211> 279  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(279)  
 <223> n = A,T,C or G

<400> 515  
 gcgcgcacaac ttcacaactt ccctntcccg tcacaggggn tctatntncc ccgcengttt 60  
 ggcggaagga tncgcgcgcg gngggcggan ncgngctnan ccgtctncgc ccgggctncg 120  
 ncccaccccc accccacagg nccagagggt nacaagnnnn taagctttng ataatgngaa 180  
 gctccaggta nagaggatgc ctgccgggtga gcacattaca gctnttgctg tttctggtgt 240  
 atgtaatat taaggttgaa aaaataaatc tcaaaagca 279

<210> 516  
 <211> 363  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(363)  
 <223> n = A,T,C or G

<400> 516  
 gactgagatg gataacgacc agccgcctgt ggtgactgcc accctgctgg tgcccccttca 60  
 gaacgggagc tgcncngaag cagntgaggc cctgctgccc catggcctga tgggattgca 120  
 tgaggagcac agntggatga gcaacaggac agagcttcat nacgagctga ncncctggaga 180  
 ggtgtncacc gacagcatct tctttgncgc tttgnggtng ntntccatct ttggcaantn 240  
 cntngtatgt ctggncatnc accgcatccg gaggactcag nccaccacca nctactttna 300  
 ggngagcatg gcgngtgntg accttctcat cagctgtagn cagnacnccg attgtcgtgc 360  
 tgc 363

<210> 517  
 <211> 152  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(152)  
 <223> n = A,T,C or G

<400> 517  
 acatcctatg tggatggggg ccanccttaga acaccttagn atgttnagga tatngctttt 60

tagaagcaca	gttntatata	aagggtccta	taagnggcc	anatagnana	tattantact	120
gnctttggtt	gtgcaactat	gttgcttttg	gg			152

<210> 518  
 <211> 351  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(351)  
 <223> n = A,T,C or G

<400> 518						
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aacaacaaca	gaagcggtag	agactacagc	ctcttcatac	agtcttcata	caagaactta	120
tggaccctgn	gaatcctgta	accacgaaac	cagtgaccac	agaaccagtg	accacagaac	180
cagtgaccac	agaaccacag	agtccaaatc	agaatgatgc	catgtccacg	ctgcagagtc	240
ctgtgtcctg	ctttctgtta	tnnaccctcc	ttcaaggagg	ggtacatttt	atgtagaagg	300
aagagggcan	cccctggcct	tggtggggng	ctataaagta	attcttacca	g	351

<210> 519  
 <211> 358  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(358)  
 <223> n = A,T,C or G

<400> 519						
gtgattcctg	gagatatctg	cgtggaaaag	cctgaccac	agtcctgtgt	ctctagccac	60
tggcacctga	aggattccct	ggaacttttg	ccaaggggtg	gctgaggggtg	tgactogtac	120
tgggcttcca	agagccacca	anctggaggg	gccagggaca	acataaggaa	gcagtaacat	180
cgntntngna	tgtcacctac	aaaaaaaaatgn	cacaanccac	annanctgct	gttntggaga	240
tctngncaac	atctgnctgg	nggaagctnc	gtnaccnct	tgtgcatctt	ggctgctntg	300
ttaccannct	gncctggctc	ttgccaggac	tgtacanctg	naggggtggga	ccgagggc	358

<210> 520  
 <211> 448  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(448)  
 <223> n = A,T,C or G

<400> 520						
gagttgctga	actccaanta	ctgttgaggc	taccntggn	annaacatnc	acggncgcgg	60
ggggnngnc	ttcttacaan	aagccctgcn	ttctgntaaa	ggctgggctag	tagtcctgct	120
gtacaaatag	aaaattaaag	anctcttaca	gggagggcgg	tccctcagaa	aataataana	180
catacaagaa	atatatatcc	ccanctgtaca	ttcaagtcct	atggngggng	ggctntntct	240
gcattgcacca	ttccacaggg	tcacttntga	tggggcaccc	tgcatctcatc	nccactact	300
ccctgttnt	nttctggnac	cccaancatg	aactgganct	cccacatctc	acagtganng	360
ctggaccag	tccaccggg	acataaagct	gcaaanagct	accattctat	gnaccngtn	420
gatgaactga	tcaagcccac	cggctctag				448

<210> 521  
 <211> 183  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(183)  
 <223> n = A,T,C or G

<400> 521  
 actgaggtat gaactgctag agaaataaaag ttctgccaaa atattgcata tactagtatc 60  
 ttgtaacatg ctttcttgaa agattttggg gctttanagg gtncacacct gtgctacagg 120  
 ggactgggaa aaagtggaaa taaagtgatt gtatttttta atcatcacccg tataaaaaaa 180  
 aaa 183

<210> 522  
 <211> 110  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(110)  
 <223> n = A,T,C or G

<400> 522  
 catgttttat ttgacaattc ctgcggcgtn taaagtgaan gtncatannc ccctgngccc 60  
 gcgctcggtc actcagactc acatagnntt ggctgctggc tgcgttccca 110

<210> 523  
 <211> 201  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(201)  
 <223> n = A,T,C or G

<400> 523  
 atgcatgact acagcnagcg cannnccnag gnnaggang ccgaggnta cgcagttcct 60  
 tcacangtnt gnatnnattg cctactgtgt gccannctgt acaagtcttt gtccttgggc 120  
 tcctgctaac agatttttaa atgtaaatcg acaactgatg ggtgaatgtg aatttgctac 180  
 tgtgaataaa tatagccagt a 201

<210> 524  
 <211> 128  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(128)  
 <223> n = A,T,C or G

<400> 524  
 cagctggctc caaaggtttg nggntcatt catnnctctg acctcactgn ctgaataaat 60  
 gaataaaatt ccaaataagc atncttgctc tgaccccggg cctaaaancg gngatcctgg 120  
 tggggctg 128

<210> 525  
 <211> 377  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature

<222> (1)...(377)  
 <223> n = A,T,C or G

<400> 525  
 aggggtctgct catccctgag tcagcagaag cgaccggcat cagccagaat accaggagaa 60  
 gttctttgat gcgtttctct ctatgaagtg aagaccagcg aagcattgta cagtgtatca 120  
 atgcaagagc tgtctcccca cagttngtgg gggtccatth atattctttc taaacatcac 180  
 aagccctctc aagtgtctgc agcaaaacat cacacagccc tctcagaaga cagcgtccag 240  
 gaaaacatca cacgatacaa gggagttnge taaaganacc agaattttcc cacttccatc 300  
 cagaggcagg tggatcttct gtgagttcaa gaccagnctg ttctacatag canggtttca 360  
 agctaggtag ggttaca 377

<210> 526  
 <211> 140  
 <212> DNA  
 <213> Mus musculus

<400> 526  
 actcgggcac cgttctgaca tttaatgtgg aattttacatg atccctcaca tcccatccca 60  
 cggttcaccc acatgaagat tcatccaagg ggaaaaccag agttcttggg agcccgagtc 120  
 caaaacccaa agaaaaaaaaa 140

<210> 527  
 <211> 248  
 <212> DNA  
 <213> Mus musculus

<400> 527  
 agaactgagg tctgcctggg cttatgaaga caaagccccc caagaccaat gagcagatgc 60  
 cccagcagtt ggccaggatc atctgttgaa caccctctca ggtactccac ccaccagtgg 120  
 ccacagttaa gctctggaat gtgctcagga tgatggacaa caaggactta gaagccgaaa 180  
 tacaccctt gaagaatgag gacaagaaat cacaggaaaa cccaggaaaag ccccgtaaa 240  
 aaaaaaaa 248

<210> 528  
 <211> 121  
 <212> DNA  
 <213> Mus musculus

<400> 528  
 ggtgcatggg cgtgactggg caaaaatttt cgaaacagga agagtaccct cagcaaatct 60  
 gagcacattg ggttgacaat cttctcgcag aggcagggtg atcaacctgt ccttcatgcc 120  
 a 121

<210> 529  
 <211> 281  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(281)  
 <223> n = A,T,C or G

<400> 529  
 tgaacttgaa gcttgagtta ttganatcag gggcnaacat gctgnacceca acgagtgaag 60  
 gggacctttt tgaccaagaa aacatggagg agatctccca actcgtctcc ctggagatgt 120  
 ctgggggatg tagtcgcaa tacaaactca accagtcgtc ctagaaaaaac ccagctaccc 180  
 agactccggg tacgttacgg nagcgaacat tnttcagggt attcggatcc aaaggnccgc 240  
 agacaaagtc ataataaatt acggaagtga acccctgcaa c 281

<210> 530  
 <211> 101

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<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(101)
<223> n = A,T,C or G

<400> 530
caggttctga acagganctt tgacgagcgg cantcaaaga gttaatgctt ctggcctagg      60
agatggcgctc nncagatntt nagancagca gctcttcaca t                          101

<210> 531
<211> 177
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(177)
<223> n = A,T,C or G

<400> 531
tcctgcgctt tgacgacgga gggctactac aggcagnttc tcttgagtca tatgacnatt      60
cttctttcct gccntggaaa ccagtgaact gntnttcctg nnctatgnan tatgaacngt      120
atnacngtcn gtgnagttat ctgcatgaac ctntactag aattaccttt ttagagt          177

<210> 532
<211> 367
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(367)
<223> n = A,T,C or G

<400> 532
agtgggggtct ttcatactga gccctggaan aggacaaaat cgctcaggag agactataag      60
gtacaatgtg gacattctca gccttaagat gtggaaatth agccagagct cacagcatgc      120
cgtggagggtt gccgacagga caccaactct gcagactgtg tcttctcaga aagccgcgac      180
cagctctgaa aatcaaacc tcttcagctt gtgtcaccta cggaacggac agccagtcag      240
ataaagaaaa caagagaacg gtggaaaagc tcagtgcatg ttcagttgac attagaaaaa      300
tccgcaggct gaaaggatgg ggtgcttcta gaggaagaaa cctacgttga agagattgca      360
aatattt                                           367

<210> 533
<211> 102
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(102)
<223> n = A,T,C or G

<400> 533
ctcctgtttc cagtgtgatc aatcaccaat acaaaggagt tcatgtgaca nctncgccac      60
ttttaatatg aagcacttat tgaattataa aaaaagaagc tc                          102

<210> 534
<211> 212
<212> DNA

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<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(212)
<223> n = A,T,C or G

<400> 534
ttctagtgcc aatcaggaga gctgaccggg taccaatttc tttcaaggtg ctcccaggtg      60
accatgaata tccaaaatgt agatcaaaga gaacgtcgta cgagtggtag atccctaaag      120
gggtcttaaa gacgggctgg atgaataagc acctgaacct ggtgccggcg ctggtggtcg      180
ngttctatga gctggactgg gacgagcctc ag                                212

<210> 535
<211> 337
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(337)
<223> n = A,T,C or G

<400> 535
ctgtcaatag ctgcttggtg aggggccagc acttctggac ctctgnctgc ggcctgggac      60
acagagctta tatnangntt ncaaaaancag atgtgatgga ctagagagat gggtcatgcc      120
actaagagag atnnactgcc ctagcagaan accanagata tctntgttnt cagcacccat      180
gntggacatc ttaaaaccat ctctaaatcc ggctctaggt gatccaatgt cttcttccca      240
gactccaagg gcacctgtac tcaagtgcac aaaccacat tttaaaaaaa aatatgtata      300
ttaaaatata ataaaaataa tctcaaaaaa aacaaaa                                337

<210> 536
<211> 255
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(255)
<223> n = A,T,C or G

<400> 536
tactatggga agaccantg aatcnngggt ggggcctttc cctggactgn ctgangagcg      60
aagaaagcac tctgagcncc ncntncnnag agaggctgcg gntcggncn ctcatgagct      120
gcacgggaat gccagangag gngggccctt acctocagcg gcccgagacc ccaaagagat      180
gagcctccat cccctntggn gtccgccatt attgattaca cntgccccct ncacctttta      240
cctacttgaa gcaga                                255

<210> 537
<211> 286
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(286)
<223> n = A,T,C or G

<400> 537
gactgagaga gccgagtnnt gtcnccacag ccattggcag nggcacttgt atgccctgn      60
caagcngtct atcctgaggt ggaggangnn nccctngngt tctggctggt aaccagcaca      120
gtatcncett taagcgttcc aganggantt tgananocct tcctaantca aaggtggaat      180
atntggggat ntgaanaant agagaatgcn aagcgtgcac ttaacgagat gccacgtan      240

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tccggggatg ccacnctnac natatttccc caaagatgga ggcctt

286

<210> 538

<211> 266

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(266)

<223> n = A,T,C or G

<400> 538

gactgagatg	ctaagccgat	ggttattcca	tcancacctg	cccaccagta	atggaactca	60
ccgaagcata	cagccgtcct	ctnttgntca	tggccagggg	ncangacgca	gggacaacgc	120
ctgntgncag	atgccgnntt	nnggaaaccn	agcncctgcc	agaggantgg	actccgtgca	180
tcaggatgag	ancaaagaga	acngactggg	actggccatg	caccnngng	tcntcaaaac	240
antaggagag	ggcagataaa	tccttg				266

<210> 539

<211> 498

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(498)

<223> n = A,T,C or G

<400> 539

gacgtctggg	gagctcctgc	attaagtcag	actgaggngg	gnncttncat	ganncggtnc	60
tgaacnnnnn	ggngacgcc	ntnccatggc	ctgagctgna	ntnantacct	gncagatacc	120
tatnaattca	tttattncac	cganaanata	tctacctaga	ggatctagat	ntcgtaccat	180
ggcataangc	ggnctgcact	tgttattagg	aagaataaan	agctctgcct	tancaggtgt	240
tcaacattaa	tantacanan	aangcttagg	cnncaagacc	ngttacctct	cccaggaagc	300
atgcatgcag	cactgctctg	gtaagcagat	gcctcctttc	ctgaccccg	gcctaaaagc	360
ggatgatcct	gtggggctgt	tcctcatggt	tctgatcctc	ctcctgggaa	cctctatggt	420
ctgcctcatc	cgtgtggttc	gcanaaagca	ggagcgtgcy	ctgcgcactg	tttgagcac	480
tgcgatgac	aaggagca					498

<210> 540

<211> 270

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(270)

<223> n = A,T,C or G

<400> 540

gactgagtcg	ttctgccant	ctttaantgt	ctganttacc	ttgaaagang	tgtggagaag	60
tgcacagtag	tcgccagagc	ggntaaatgc	ngagtcntcn	ttcagttcct	cggnaaagcat	120
gggtnttaaa	aagacctcac	attgtgtntt	tccaagacag	cccagccctt	tgaaaatttn	180
tctttcaaaa	aagaggctgg	ggngcgaaat	atccctggat	ggtttaaacc	caagncttgg	240
ctggactgaa	ggccattgg	ggggtttttg				270

<210> 541

<211> 361

<212> DNA

<213> Mus musculus

<220>



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<221> misc_feature
<222> (1)...(361)
<223> n = A,T,C or G

<400> 541
gtgctgtcac cctactgngg ncatcctgtt tgaacacacg actacctatc cctcaaccag      60
atcgtngcgc atantaatga agaaacacac aggaacaagt gctgaaaacc anattatnaa      120
gaacagcttg agcangggcc cgtgatagaa tgactcagcn aggtgttntt cactataaag      180
cntgaccggt acccacatgg ccagtaccac caacatccta ngaacctgaa tcctcccaaa      240
gacaggtgag cgctcgtgat tctctgagca gnaagggaat tttgttttgg gtcttatttg      300
ccagctgaga aaatgcaaat ggnatattca ttaagatgtn atgcggggag aaaaataaaa      360
a                                                                                   361

<210> 542
<211> 217
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(217)
<223> n = A,T,C or G

<400> 542
gcatactgga gtgatctggc atagactcat actgtgttag aaaagggagc ctggntcagn      60
cctctctggc aggctngcac ctntatnctt ccttcttgga atcaagacat gggattatcc      120
ttcctcctcc cccagggtct cacagcacag gccctgctct gtgtgagnga cctccttcag      180
agacacttgc cccatgcagc tcgatgggtt ctgggttt                                217

<210> 543
<211> 427
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(427)
<223> n = A,T,C or G

<400> 543
gactgagatg ttaaagtgac accaagggnag tagtgatgnn ggtggntgga ggctgggtcat      60
ctaccttaac agcaaagaca ctaannagat gtntcaagat gctgcgccct ttaccgatgt      120
ctgagttgtc cacacttcca tcctgatgtc cttatgtggg tgaagatgat cccaacctgn      180
agccaacaca gaaaagccca taacctgtgg ncctcaccac ctctacagca ntgaaggtct      240
ccagngtcac cctgtggacc caccacaccc agctgaagaa ggctccagga gataacagag      300
atgggtggtc atcaggtcct ncaacttcct aaagatagga ctaacggggg gcctattatt      360
atcgggtgnc ctttctttgn tctttccatt attctgatca ttccaaatat taacccttta      420
aatactg                                                                                   427

<210> 544
<211> 362
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(362)
<223> n = A,T,C or G

<400> 544
ctgggacacag gccatagata cttcttgn gn aactctcaaa ngttggattg gatatcangg      60
ccgngntcat ancaaaagtc ngngcagnan gcctnctngn acgntcnang ncagggcngg      120
agacactgan cagccnatct ggcctcagca acnagcacct gacagtnngg acngtanaga      180

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aggctctcac	ggctgcnatc	ggaggctgca	aacgccgagn	ttnnccggccc	agcaggtnaa	240
catatgggca	gcaatgctgn	ngctgtcacc	accaccacca	ccatagccac	tgtcaccacc	300
gaggatagga	agaaggactt	taaganaaac	cgatgnctgg	ctattgggat	acagggggac	360
ga						362

<210> 545  
 <211> 235  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(235)  
 <223> n = A,T,C or G

<400> 545						
gggcacccag	acattctacc	tccaagaaac	cacgctacag	tcaccagata	aaagtggctg	60
ccacaggtca	cctggctgag	caacactgct	ggccagtcgg	aggttgcttg	ccagacagga	120
gctganccca	cctgcagcca	agccttccag	cactaagggtc	cccagcagtg	ggaagtactc	180
aaacnggntg	aanagccatc	aagggcnaaa	cttgagggggg	gggggggggcc	caaat	235

<210> 546  
 <211> 117  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(117)  
 <223> n = A,T,C or G

<400> 546						
cgttaggggc	aaaaacccag	ggcaaggatg	ggaaaagcaa	gtactcgact	ctcagcctgt	60
ttgacaagta	taaaggagag	tcagcaggcg	cntgtcagga	aataaataag	agaata	117

<210> 547  
 <211> 206  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(206)  
 <223> n = A,T,C or G

<400> 547						
gactgaggac	ggtacaccca	gcaagaagtc	tangcaggga	aataggcaan	actncanttc	60
ngtgaatatt	tcagnggtnc	tatgtgnagg	agccctgggn	tgtnctgaaa	cttgctctgt	120
ggaccaggct	gacctatgcc	tactgaatgc	tgggatgaaa	ggcagtgcac	caccactatg	180
cagcattttt	ttttttaaaa	gggcc				206

<210> 548  
 <211> 239  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(239)  
 <223> n = A,T,C or G

<400> 548						
gttaagaact	gttcagatac	cacgaagtca	tcatgtgacg	tgacagataa	gtgggttgga	60

gggcatggag	agctacgtcg	tgcccatcgt	catagtgcac	agaggggact	tgaccgtgtg	120
ccgctgctca	gactacatcg	tgccctgcaaa	cgctcctctt	gagccgccag	aatttgagat	180
cgggtggcttt	acagaccaca	taaancgtga	cgatgggaat	ttccaccttg	gacccaag	239

<210> 549  
 <211> 111  
 <212> DNA  
 <213> Mus musculus

<400> 549						
gactgagagc	tcagagacaa	ggaagcagca	gtcacactgg	gggccacaga	agggccctca	60
gtggcgtcca	tggctggcct	ggaccccaaca	ctgagcacaa	gtcaccatt	g	111

<210> 550  
 <211> 120  
 <212> DNA  
 <213> Mus musculus

<400> 550						
agcgtgaggg	ttcaaaaagg	attcttcgct	ccaatgagat	catccttcca	gccagtggcc	60
tggtggagac	agagctccag	ttaaccaa	taagtttctc	aacatataaa	aattaaaaaa	120

<210> 551  
 <211> 287  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(287)  
 <223> n = A,T,C or G

<400> 551						
caaccctgaa	cccacnacaa	tgacattatg	atggngcatn	tgaaaattca	ntcaaattct	60
ctaaaagatc	cagcctctgc	cttgaagatg	acctgctctg	aggagaatcc	aactgcnaat	120
tctgggctgg	gnaagangga	aatgggggct	tccagnncca	ttannngct	gttnccatnt	180
tgngcccn	agcagngtga	gcgnnctncc	ctgnaagata	acccaaanna	tggggggcgc	240
angcgantga	aaaaaggaac	caattcctnt	caggggggatt	ttggagg		287

<210> 552  
 <211> 397  
 <212> DNA  
 <213> Mus musculus

<400> 552						
atactccttg	cttagtttta	ggccattgac	tatgcagcct	agtgactgga	atgatgtgaa	60
aaaacctaag	tatggtcact	tgctcagagtc	tgcatctcaa	tatcaagaat	ctgttgacat	120
cctggagcta	ggtcatttta	cctgggacaa	atacctaata	gaaacatggt	cagtcccagc	180
gcctgtccat	tgttcaagc	agtcctacac	acctccaagt	aatgagttca	agatcagcat	240
gaaattggaa	gcacaggatc	ccaggaacac	cacatccacc	tgtattgcca	cggtcgttgg	300
attgacaggt	gcccgaacttc	gtctgcgcct	tgatggcagt	gacaacaaga	atgacttctg	360
gagactgggt	gactcctctg	aaatccagcc	accgact			397

<210> 553  
 <211> 277  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(277)  
 <223> n = A,T,C or G

<400> 553  
 actgaggaaa gaagangatg gagnagncgc cgaatctgag gccttggtc cegtgtttgg 60  
 gaccaggagg gaaggagaga agatagattt cgctgagaca cttgcccggg tccctttgtg 120  
 ggtcagaatg ggtcccgatg agaacctgag tgtgagagtg aaactacgga gtatcatttg 180  
 tagctttgtt cctcaagact tgccatgaga tttaagtaga gcgcctgtgt ggaaattgtt 240  
 aattgtagct agtcagatcg aagactattg acagcat 277

<210> 554  
 <211> 109  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(109)  
 <223> n = A,T,C or G

<400> 554  
 tttgacctgc tcctgggaan ttgctgnntc gttaaaggcac tncnntatgg aactgcagca 60  
 gccnncaagg acagcatctg ctataaccta cagaccgtgg gggaggtct 109

<210> 555  
 <211> 215  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(215)  
 <223> n = A,T,C or G

<400> 555  
 ttcctacagt tccacctacc tcgtgtgtac aaagctgcc ccttncagnc ctcnnggctg 60  
 gnctcctgta ggacctgnga tcccacctcc ngactccagn tacnccanc ttcacctga 120  
 anggggnctc tgctngccaa natatcanc ctgaattctc ctaacaaagg tgtactgtct 180  
 gactttatga ctgacntccc tgtaaccca ctttt 215

<210> 556  
 <211> 358  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(358)  
 <223> n = A,T,C or G

<400> 556  
 actgactgcg agtccccag ttcacctgga gatctagctg ggagcccagg ctgtgacaag 60  
 acacgcggct gtgcaaaggc ggtagacat tatggaggag acggtggaga agacagtgga 120  
 gcacctggag gcggaagtga cagggtctgct gggcctgctg gaggaactgg cttcaaacct 180  
 tcccacaggg cccttcagcc ccaaacctga cttgcttgga gatgatggtt tctgacttcc 240  
 agggatggtg gagcctgcca gctgaagtca tccctcanag aaccaagcca ggtcttcctg 300  
 cttcctgcc ccacctttgt gtgaaataaa agctccgatt tggaccctaaa aaaaaaaa 358

<210> 557  
 <211> 471  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(471)

<223> n = A,T,C or G

<400> 557

cacttttcac	gcaatgtccg	atcgtttggg	gcaaataacc	cagggcaagg	atgggaaaag	60
caagtactcg	actctcagcc	tgtttgacaa	gtataaagg	aggtcagtag	gcagctgtca	120
ggctcctcag	tattcctaga	catggcttac	agagtctcgg	gaaagttgcc	acantccggc	180
ggnngccacc	cgcttgcaaa	cctgccaagc	ctgaagtctg	aaaacaaagg	aaacgacccc	240
aacatcgtga	tagttcccaa	ggacgggaca	ggatggggcca	acaagcagga	ccagcaagac	300
ccaaagagtt	ccagtgtgac	ggcctctcag	ccgccggagt	cgcagncgca	gccggggttg	360
cagaaatctg	tctccaattt	gcagaaaccg	acacagtnta	tcagtcanga	gaacacaaat	420
ncagtgnacg	gtggaccaac	antcatgggc	nnaacagagt	acaagtagtc	g	471

<210> 558

<211> 362

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(362)

<223> n = A,T,C or G

<400> 558

gactgagatg	ggaacagcac	atcgctgctt	tgggggaagt	ctacaactac	tcctgtgaac	60
cagattcaag	aaacaatttc	tancanttgt	gtgggtgatc	tctcaaaaac	atcctgctct	120
tactgttcca	tggccaagaa	gattttccat	gacatgaatg	tcaactacaa	ggctgtggag	180
ttggatatgc	tggaaatagg	caaccagttt	caagatgcgc	ttcacaagat	gactggggaa	240
agaaccgttc	ccaggatatt	tgtcaatgga	cgattttatt	gagggcgagc	ggacactcac	300
aggcttcaca	aagaagggaa	attgctgcct	ctggttcac	agtgttattt	aaaaaaaaaa	360
ca						362

<210> 559

<211> 135

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(135)

<223> n = A,T,C or G

<400> 559

ggatgccctt	gggggggttc	tgtatcgngg	ggatcaatgt	ctacaggcca	nantcaccct	60
tattgaaagg	gangtncctc	cacctttngt	tcatggcana	agantataag	ntganagctg	120
tctgcggttc	ccttt					135

<210> 560

<211> 174

<212> DNA

<213> Mus musculus

<400> 560

gaactgaggt	attctcatgg	gagcagtaat	aaaagttata	gagtttataa	agctggcaaa	60
ttggaaggag	gaagaaatgt	ttcgccccaa	catgtttttc	cttctcttgc	tcccacctat	120
tatctttgag	tcaggatact	cactgcacaa	ggggaacttc	tttcagaaca	tcgg	174

<210> 561

<211> 300

<212> DNA

<213> Mus musculus

<220>

<221> misc\_feature

<222> (1)...(300)  
 <223> n = A,T,C or G

<400> 561  
 atctctactg cctccaacac gccgaatcct ggctganctt ttacagcaaa cagccaactg 60  
 gaacaagatg aatgtggaac agtaccctgc ccctctggag tgttataatg agttgggaca 120  
 tgtctctgta gaaagatttg cccaactttg tcaggaactc atggatacac taagggaat 180  
 aaggcagccc aagagcctct cttttgctac acgtatatgc cacaaatgtg gcgagccctg 240  
 tgtctatggt caggggggta gactttgttt ttgctggcgg ngaacatgga ttcagaactt 300

<210> 562  
 <211> 192  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(192)  
 <223> n = A,T,C or G

<400> 562  
 atttcgcaac tgaaacttgc aatcatttca gggccatacc cattaaacaa gcacagtgcc 60  
 aggtaaaaatg acaggcgaaa ctgcatccat gaatttacgg agggactatt tggttttcat 120  
 ttantacttt taccacctca ttttatgtct ccggcaaagc caaaggaacc aaacttactt 180  
 taaaaaaaaa aa 192

<210> 563  
 <211> 359  
 <212> DNA  
 <213> Mus musculus

<400> 563  
 ctccaacctg tcaagttgtt ggagatcctg caatcgccgc cgccgctgca gcagtcctga 60  
 aagcggcaga gccatgcagt gagcacatcc agcgaccgcc ggccccacag aggaaggctc 120  
 cagcctggaa aggaaatgct atgagatggc aagataggga caagagagac agtcctgagg 180  
 ttctcagtg tgacagcgcc caaaccagag ttcagggtccc aactcacagc caggttcctt 240  
 cgtacgcccc agcgcttcct ctctaagcct tagaagtga agtatctggg ggttgggaca 300  
 atcaccaagt atgtctacaa acggctttcc ttaaaccatc atcaataaag cgagcaaga 359

<210> 564  
 <211> 327  
 <212> DNA  
 <213> Mus musculus

<400> 564  
 ggcaggcaca gctcctctgg cagaogtagg tcctgggtgga aacgggggttc aggggactcc 60  
 gcagccttca ccagcatgag ccattccagag gagtcaacag aggtgacact gaagactgac 120  
 gtggagtcag gagccagtgg ctacagtgtc acagggtggag gggatcaggg gatctttgtc 180  
 aagcaagtac tgaaggactc gtcggctgca aagctgttca acctgagaga aggagatcaa 240  
 ctgcttagtg cgaccatatt ctttgaccat atgaaatatg aagatgctct taaaatcctt 300  
 cagtactcag aaccatacaa agttcag 327

<210> 565  
 <211> 119  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)...(119)  
 <223> n = A,T,C or G

<400> 565

tgtaatggaa	tccgatgtcc	tcttctgggc	tgtctaagag	atctacagta	aataagtaag	60
taaaaaagaa	ggaaagaaa	acaagaaaag	ganagtgaat	gaaagatttt	ttaaaaaaa	119

<210> 566  
 <211> 125  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(125)  
 <223> n = A,T,C or G

<400> 566						
agatccccaa	ctcccaccaa	nagccagctt	tangtgtnnt	aangacagta	cnaccatcga	60
gcatggtngc	tcctctgnat	gnngggagat	gatgactgtc	ncattgctgt	gtgatggcct	120
ggaat						125

<210> 567  
 <211> 362  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(362)  
 <223> n = A,T,C or G

<400> 567						
gggatcgttt	gcctaagatg	cgaccatgcc	atccaggctt	ctccacaccc	tggaagttt	60
acacagcata	tcaagcaaag	gctcatcagt	gccagagact	tacttggtt	acattaagac	120
cacttaggaa	atcctngaaa	gtacattttt	gccacagggg	gcctgacaat	acangctaca	180
ttgacnctnn	ttatttgcac	cntatgncng	ntgancagtt	cgganncggn	ncanganata	240
cctggaaang	anncgataa	catcangaca	caagccagac	tctttgtcgn	taaangctag	300
ncatnnggt	tggaacngcna	aaaacaccng	ncaagnonnt	gcnccccctt	ttgggaatca	360
ca						362

<210> 568  
 <211> 186  
 <212> DNA  
 <213> Mus musculus

<400> 568						
gaccggagct	ggctgaggat	ccaggcagga	gctgtgcagc	atctgagtca	ggctcgctct	60
ctcccacacc	ccagagccga	cctgcctgaa	cattcgaggt	tattcttagt	aactctcagg	120
tttcaactcta	gcacactgag	catgctcaag	tgggtaaata	cagaaatctg	tttttaaaaa	180
aaaaaa						186

<210> 569  
 <211> 101  
 <212> DNA  
 <213> Mus musculus

<220>  
 <221> misc\_feature  
 <222> (1)..(101)  
 <223> n = A,T,C or G

<400> 569						
acctgactga	gacatgcagc	ttccctgtgc	ntcactaggc	caccaggata	tccacctgtg	60
acctcncntg	gataaatgtt	tctgttttgg	aaaaaaaaa	a		101

<210> 570

<211> 137  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(137)  
 <223> n = A,T,C or G  
  
 <400> 570  
 tattctcaga ggaataggga agaattnagg aaaatctggn atttcctacc nngaccangc 60  
 nncagaagct tcccacannc ntgtaggcat tgccgctcat caggaagtcc cgtcttacgg 120  
 aagccagtta tcaacta 137  
  
 <210> 571  
 <211> 412  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(412)  
 <223> n = A,T,C or G  
  
 <400> 571  
 tgagcctgat gatagcagat cttaatgatg gaaggtagac gcccatgcan ccttgtgaan 60  
 caactgggac cacanggnca nagagtcccn tgataccan gtntcatttn ctcaaggacc 120  
 cagcagactg aggacatctg caaaattcct aaggctagag ngaaagacta cagngaactc 180  
 taacacccca gcaaggctcc accttctcct atcagagcta cgggacaccc aacctgggcc 240  
 gcacgcagtc ttctctgcag ttgggacagg nnnntnntct gnccttgntt tcccacagcc 300  
 ngtttttcan nncnatanatt nccatgctng tggggccctg nattttagna natnntggan 360  
 cannctgtnc ctgggcggncc cccagcgctc acctggaaca gaggggagcc ca 412  
  
 <210> 572  
 <211> 426  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(426)  
 <223> n = A,T,C or G  
  
 <400> 572  
 ggagctgggg agaagggtgaa ggcttgccat gntcannctg gcccaagcca ttccagggac 60  
 tatctttngt tactattgct gtgataaaac acctgacca aaggcaaggt ggagaangan 120  
 gggtnatntt caacttacaa ctcttggttg actccatcac tganaggatt tgaggcataa 180  
 actcaaggaa caaacctang aggtaggaaac tggangacat gggctnggag aagactgctc 240  
 ttactggttt ggtncnctatg gtttgcccag ggtgctttct catacaactn aggaccacc 300  
 ncgnagnngg gccagaggtg caccaccogt ctgtaactcc agnttcaggg gataatctga 360  
 tacctctttt tggctccaag aacangcagg catatacaca taaatgcagg gcaaacatt 420  
 catacg 426  
  
 <210> 573  
 <211> 767  
 <212> DNA  
 <213> Mus musculus  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(767)  
 <223> n = A,T,C or G



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<400> 573
gtactgctca aacggacctt cgaggacaga ttgCGgagcg tctactcgag acagcagggt      60
gacaagtctg cctccagttc tctcactggt ggatcttgag acaacaggaa aatgacttcc      120
catgacccaa aggcCGtcaC tCGcagaacc aaggTggctc ccaccaagag gatgagcagg      180
ttcttgaaac actttacggt ggttggggac gactaccaca cgtggaatgt caactacaag      240
aagtgggaga atgaggagga ggaggaggag ccagcGccca catcagcaga ggtgagggc      300
aatgctgCGg gccagatgc cgaggctggc tctgcctcca cGccaggca gtccctggac      360
ttcaggagcc gactgaggaa actcttcagt tcccacaggt ttcaggatcat catcatctgc      420
ctggtggtcc tggacgccc cctcgtgctt gctgaactcc tcctggattt gaagatcatc      480
gagccggacg agcaagacta tgccggtcac ggcgttccac tacatgagct ttgccatcct      540
ggncttcttc atgttgggag anttttttta agatcttcgg cttncgctta gagttctttc      600
accacaaagt ttgagaaacc tggatgcctt tgtggtggng gggcttttnc gtccttgacc      660
tttgctnttt gttaaaagcc cccctctcna aactcttngg gttgctnanc tgctttctnc      720
tttnaggggg gccccctta ccaccgggnt ctccatctcc gggaaaa      767

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<210> 574
<211> 456
<212> DNA
<213> Mus musculus

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<220>
<221> misc_feature
<222> (1)...(456)
<223> n = A,T,C or G

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<400> 574
ccttgtaaat gcaatggctg gaagacccta acccctctcc tactccacca agaggagacc      60
tgcagcagat aattgtcagt ttgacagaat cctgtogaag ctgtagccat gcccttgctg      120
ctcacgtttc tcaCttggag aatgtgtcag aggaagagat ggacagactc ctgggaattg      180
ngttggatgt ggagtacctc ttcacctgcg tccacaaaga agaagatgca gataccaaac      240
aagtgtactt ctacctattc aagctcttga gaaagtcaat tttannaaga ggaaaacctg      300
tggttgaaag ctccctggag aagaagccgc catttgagaa gcccagtatt gaacagggtg      360
tgaacaactt cgtgcagtac aagtttagtc acttgccatc gaaagaagag gcaggacanc      420
gatccgagct ggcccaagat gtttctgaac cgcatt      456

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